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=> s review/dt

L1 1331380 REVIEW/DT

=> s (cell?)(5a)(therap?)/ab,bi

139989 (THERAP?)/AB 179421 (THERAP?)/BI 1883075 CELL?

7686 (CELL?)(SA)(THERAP?)/AB,BI 7

=> s 11 and 12

1401 L1 AND L2 2

=> s (cell?)(3a)(therap?)/ab,bi

13989 (THERAP?)AB 179421 (THERAP?)BI 4796 (CELL?)X3AXTHERAP?)AB,BI 1883075 CELL?

7

=> s 14 and 11

918 L4 AND L1 LS => s 15 and administ?/ab,bi

368173 ADMINIST?//AB 397022 ADMINIST//BI

41 L5 AND ADMINIST?/AB,BI 2

=> s 16 and neuro?/ab,bi

227772 NEURO?/AB 301028 NEURO?/BI

1 L6 AND NEURO?/AB,BI 17

=> d bib ab

L7 ANSWER I OF I CAPLUS COPYRIGHT 1999 ACS AN 1997:333476 CAPLUS DN 126:338287
TI Theories and new therapeutics to cure Alzheimers disease

AU Toledano, Adolfo CS Inst. Cajal C.S.I.C., Madrid, Spain SO An R. Acad. Farm. (1996), 62(4),

ODEN: Acad. Farm. (1996), 62(4), 717-765 CODEN: ARAFAY; ISSN: 0034-0618

Journal; ***General Review*** PB Real Academia de Farmacia DT Journal; ***General Revier LA Spanish

AB A review with many refs. Recent theories on Alzheimers disease are

opening new treatment lines, both pharmacol. as non-pharmacol.

conviction has already been reached that, in this

neurodegenerative illness, it is necessary to plan a global treatment, with all sorts of measures for the patient, including the care-givers, and in which doctors and other sanitary professionals, well as other social and economic agents, must take part. The aims ot

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development of each patient given them the highest possible degree these treatments must be considered for every step in the clin. ğ

'cholinergic drugs" (ranging from muscarinic agonists to acetilcholinesterase inhibitors), "growth factors" (NGF,

self-sufficiency. Between new drugs being introduced we must

neurotrophins and glial factors), nootropics (similar in

action to the former), and "aging factor neutralizers" (regulators of intraneuronal calcium and neutralizers or scavengers of free

The anticholinesterasic tacrin has shown many secondary effects, its hepatotoxicity, but it is hoped that soon, new generation, less

drugs will appear. There are some coadjuvant drugs which can be

and others useful in the control of psychotic and depressive

Even though we cannot yet talk of effective and attainable treatments at

this moment, but we can hope that new drug

administration routes

and pharmacol. approaches (brain injections, slow drug diffusion pumps,

neuron and glial ***cell*** implants, and gene ***therapy***

) will, in the near future, be able to control the evolution of the

=> s 14 and neuro?/ab,bi

227772 NEURO?/AB 301028 NEURO?/BI

277 L4 AND NEURO?/AB,BI **7**8

=> d 1-10 bib ab

L8 ANSWER I OF 277 CAPLUS COPYRIGHT 1999 ACS AN 1999:577006 CAPLUS

Tl Embryonic or stem-like cell lines produced by cross-species nuclear

transplantation

IN Robl, James; Cibelli, Jose; Stice, Steven L.

PA University of Massachusetts, A Public Institution of Higher Education of

the, USA

SO PCT Int. Appl., 59 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

APPLICATION NO. KIND DATE PATENT NO. DATE

WO 1999-US4608 A1 19990910 PI WO 9945100 19990302

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, CU, CZ, DE

KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, IS, JP,

TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SI., TJ, TM,

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, MD, RU, TJ, TM

IN Hodgen, Gary D.
PA Medical College of Hampton Roads, USA.
SO PCT Int. Appl., 13 pp. for transplantation ***therapies*** A1 19990902 KIND DATE CODEN: PIXXD2 WO 9943785 PATENT NO. 131:167378 LU, MC, NL, quenching the English FAN.CNT 1 research. Patent circulatory has strong oxidative can bind DATE activity. nervous activity Z 占 ΓĄ ద ğ Pycnogenol. Pycnogenol (PYC) is a standardized ext. composed of These cells, which may contain a heterologous gene, are esp. useful AB There is growing interest in the biol. activities of plant exts. such differentiated donor cell nuclei into enucleated oocytes of a species individually indicating that the components interact synergistically for introduction, removal or modification, of desired genes, e.g., at units are useful for the prodn. of isogenic embryonic stem cells, in stem-like cells are useful for producing desired differentiated cells AN 1999:569434 CAPLUS
TI Antioxidant activity and biologic properties of a procyanidin-rich cell differentiation. Also, methods for improving nuclear transfer efficiency by genetically altering donor cells to inhibit apoptosis, select for a specific cell cycle and/or enhance embryonic growth ***cell*** transplantation ***therapies*** and for in vitro ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, different from the donor cell is provided. The resultant nuclear of flavonoids, mainly procyandins and phenolic acids. Studies that PYC components are highly bioavailable. Uniquely PYC that obtained from the bark of the French maritime pine Pinus greater biol. effects as a mixt. than its purified components do L8 ANSWER 2 OF 277 CAPLUS COPYRIGHT 1999 ACS has been reported to have cardiovascular benefits, such as a Department of Molecular and Cell Biology, University of particular human isogenic embryonic or stem cells. These CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG specific sites of the genome of such cells by homologous AB An improved method of nuclear transfer involving the SO Free Radical Biol. Med. (1999), 27(5/6), 704-724 CODEN: FRBMEH; ISSN: 0891-5849 from pine (pinus maritima) bark, pycnogenol AU Packer, L.; Rimbach, G.; Virgili, F. PRAI US 1998-32945 19980302 development are provided PB Elsevier Science Inc. Berkeley, CA, USA Journal embryonic or California displays CF, CG, Α S .5

activity, angiotensin-converting enzyme (ACE) inhibiting activity,

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W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AB Methods of treating a human patient having a disease, disorder or
AB A novel method of isolating and propagating a line of embryonic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IN Prockop, Darwin J., Stokes, David G.; Azizi, S. Ausim; Phinney,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,
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                                                                                   that originates from either morulae (pre-stem) or blastocyst (ICM
                                                                                                                                                                cells) is disclosed for the purpose of transplanting cells, tissues or
                                                                                                                                                                                                                                                                                      L8 ANSWER 4 OF 277 CAPLUS COPYRIGHT 1999 ACS
AN 1999:565879 CAPLUS
TI Isolated stromal cells for use in the treatment of diseases of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         may be cultured in vitro, they may be genetically engineered to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             include obtaining a bone marrow sample from a human donor,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the presence of the isolated stromal cells in the brain effects
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                                                                                                                                                                                                                                                       free radical-scavenging activity against reactive oxygen and nitrogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of key enzymes and proteins involved in metabolic pathways. PYC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Aspects of PYC's activity are presented and discussed together with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                possible future implications and directions in the field of flavonoid
                                                                        permeability. Investigations of the ***cellular*** mechanisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NO radical and inhibiting both iNOS mRNA expression and iNOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              disorders as well as in ***neurodegenerative*** disease. PYC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           radical and to protect endogenous vitamin E and glutathione from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The spectrum of different effects of NO in the circulation and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           system suggest the potential applications of PYC in immune and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     W: AU, CA, IP, NO
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT,
                                                                                                                                                                   these ***therapeutic*** effects have demonstrated that PYC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               stress. PYC modulates NO metab. in activated macrophages by
                                                                                                                                                                                                                                                                                                                                                                                                                       antioxidant network as indicated by its ability to regenerate the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  to proteins, altering their structure and thereby modulating the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NO.
                                             ability to enhance the microcirculation by increasing capillary
                                                                                                                                                                                                                                                                                                                                       significantly to the ESR free radical signal. PYC also participates in the cellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          redox-sensitive signal transduction pathways and alters gene
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AN 1999:566152 CAPLUS
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***cells***
                                                                                                                                                                                                                                                                                                 species. The oligomeric components of PYC contribute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PT, SE
PRAI US 1998-PV76273 19980227
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APPLICATION NO.

KIND DATE

WO 1999-US3897

A2 19990902

administration into the central nervous system.

AB It would be of enormous benefit if human neural tissue could be ***therapy*** and provide a source of tissue for testing ***cellular*** and in vitro as this would allow screening for ***neuroactive *** L8 ANSWER 5 OF 277 CAPLUS COPYRIGHT 1999 ACS AU Svendsen, Clive N.; Smith, Austin G.
CS MRC Cambridge Centre for Brain Repair, University of Ti New prospects for human stem- ***cell*** Trends Neurosci. (1999), 22(8), 357-364
 CODEN: TNSCDR; ISSN: 0166-2236 AN 1999:500334 CAPLUS PB Elsevier Science Ltd. Cambridge, CB2 2PY, nervous system Journal LA English generated compds. 5 gene ၀ွ

therapies for CNS disorders. It is now well established

pluripotent embryonic stem cells (ES cells) from the mouse can be more-restricted neural stem cells have been isolated from both the developing and adult rodent brain. Current reports now describe propagated in culture and differentiated into a range of tissues, including ***neuronal*** and glial cells. In other studies,

pluripotent and neural stem cells cultured from human

exact nature of these cells continues to be explored, they can be embryos. While the

for extended periods of time while retaining the capacity for

neuronal and glial differentiation. In some cases, they have been shown to integrate into the developing or damaged adult brain. This reviews their biol., with a focus on the possible links between article

and neural stem-cell technologies, and the strategies used to isolate

expand defined cell populations.

ANSWER 6 OF 277 CAPLUS COPYRIGHT 1999 ACS 2

AU Scheffler, Bjom; Horn, Meyer, Blumcke, Ingmar, Laywell, Eric AN 1999:500330 CAPLUS
TI Marrow-mindedness: a perspective on ***neuropoiesis*** D.; Coomes,

CS Dept of Anatomy and Neurobiology, University of Tennessee, Debra; Kukekov, Valery G.; Steindler, Dennis A.

SO Trends Neurosci. (1999), 22(8), 348-357 CODEN: TNSCDR; ISSN: 0166-2236

38163, USA

PB Elsevier Science Ltd.

AB There are pluripotent stem cells in the adult brain that might not

different from those found in bone marrow. Recent and profound be very

in the field of ***neuropoiesis***, which often rely on insights

studies of hematopoiesis and in some instances use cross-paradigms from

this field, have already revealed that bone marrow has much in

so-called brain marrow. Proliferative primogenitors and common with

regulated mols. are hallmarks of both ***neuropoiesis*** and developmentally

neuropoiesis within a central core of the mature brain hematopoiesis. This article will focus on recent advances in

referred to as brain marrow, discussing its pluripotency and that is

proliferative

capacity, in vitro and mol. assays used in its study, and markers of ***neuropoietic*** stem/progenitor cells. As hematopoiesis

research has

led to the discovery of numerous morphogenetic factors, it is anticipated

that studies of ***neuropoiesis*** should also uncover many

factors and genes that affect the growth and differentiation of neural cells. Recent breakthroughs in the stem-cell field prompt an rationale for the persistence of normal stem/progenitor cells even in

aged brain. By analogy with hematopoiesis research, a thorough investigation of brain marrow should provide basic insights into developmental and persistent ***neurogenesis*** while

cell -transplant and gene ***therapies*** anticipating

for

neurol diseases. debilitating

ANSWER 7 OF 277 CAPLUS COPYRIGHT 1999 ACS L8 ANSWER 7 OF 277 CA AN 1999:483394 CAPLUS

II Methods of treatment using MAO-A and MAO-B inhibitors such DN 131:111455

as L-deprenyl

Thomas, Thomas N. USA Z Z

PCT Int. Appl., 4: CODEN: PIXXD2 DT Patent ၀ွ

English FAN.CNT

APPLICATION NO. KIND DATE PATENT NO.

WO 1999-US1670 A2 19990729 WO 9937293 PI WO 99 19990126

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, CU, CZ, DE

KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,

MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, MG, MK, MN

TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, SL, TJ, TM,

TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, FI, FR, GB, GR, IE, IT, LU, MC, NI., PT, SE, BF, BJ, CF, CY, DE, DK, ES,

CM, GA, GN, GW, ML, MR, NE, SN, TD, TG PRAI US 1998-PV72718 19980127

CG, CI,

AB Effects of MAO-A or MAO-B inhibitors such as L-deprenyl on

both cerebral

and peripheral vasculature, on nonvascular smooth muscle, on the nervous

system, and on platelets, RBC, WBC, mast cells, macrophages, and

cells are disclosed. The effects are the result of a mode of action glial

MAO-A or MAO-B inhibitors such as L-deprenyl which is totally selective inhibition of MAO-A and/or MAO-B. Therapeutic unrelated to Ę

MAO-A or MAO-B inhibitors such as L-deprenyl to treat a variety

methods of using

disorders are disclosed.

ANSWER 8 OF 277 CAPLUS COPYRIGHT 1999 ACS L8 ANSWER 8 OF 277 CAI AN 1999:468044 CAPLUS DN 131:125922

TI Method for preventing and treating sensorineural hearing loss and vestibular disorders using glial cell line-derived ***neurotrophic***

factor (GDNF) protein product IN Magal, Ella

PA Angen Inc., USA SO U.S., 24 pp., Cont.-in-part of U. S. 5,837,681. CODEN: USXXAM

DT Patent

LA English FAN.CNT 2

APPLICATION NO KIND DATE PATENT NO. US 1996-710219 19960913 US 1996-606176 19960223 WO 1997-US2677 A1 19970828 A 19990727 A 19981117 PI US 5929041 US 5837681 WO 9730722 19970214

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR

| defined medium contg. basic fibroblast growth factor (bFGF), leukemia inhibitory factor (LIF), and epidermal growth factor (EGF). Using these three factors, the cell cultures expand and remain multipotent for at least 1 yr in vitro. This period of expansion results in a 107-fold increase of this heterogeneous population of cells. Upon differentiation, they form ***neurons****, astrocytes, and oligodendrocytes, the three main phenotypes in the CNS. Moreover, GABA-immunoreactive and tyrosine hydroxylase-immunoreactive ***neurons**** can be identified. These results demonstrate the feasibility of long-term in vitro expansion of human neural progenitor cells. The advantages of such a population of neural precursors for allogeneic transplantation include the ability to provide an expandable, well-characterized, defined cell source which can form specific ***neuronal*** or glial subtypes. (c) 1999 Academic Press. | => \$12 and neuro/lab.bi 227772 NEURO/NAB 301028 NEURO/NBI L9 485 L2 AND NEURO/NAB.BI => \$19 and 11 L10 66 L9 AND L1 => 41-10 bib ab L10 66 L9 AND L1 => 41-10 bib ab L10 ANSWER 1 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1999:432617 CAPLUS DN 131:114087 TI Identification of neural stem ****cells**** and its application to the ****therapeutics**** of damaged brains AU Kawaguchi, Ayano, Okano, Hideyuki CS Biomed. Res. Cent., Osaka Univ. Grad. Sch. Med., Japan SO Saishin Igakus (1999), 34(7), 1721-1729 CODEN: SAIGAK; ISSN: 0370-8241 PB Saishin Igakusha DT Journal; ***General Review**** LA Japanese AB A review, with 22 refs., on ****neuronal**** development in fetal stage of mammals, establishment of selective culture of neural stem cell, |
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| PI WO 9936511 A2 19990722 WO 1999-US1194 19990119 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, IP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TI, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TI, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BI, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG PRAI US 1998-71731 19980116 US 1999-231235 19990115 AB Disclosed are gene therapy vectors based upon the feline immunodeficiency virus, as well as related packaging cell lines, methods for prodn, and | L8 ANSWER 10 OF 277 CAPLUS COPYRIGHT 1999 ACS AN 1999-452502 CAPLUS TI In Vitro Expansion of a Multipotent Population of Human Neural Progenitor Cells AU Carpenter, Melissa K.; Cui, Xia, Hu, Zhong-yi; Jackson, Jennifer, Sheman, Sandy, Seiger, ANG.Ke, Wahlberg, Lars U. CS Cell and Molecular Neurobiology, CytoTherapeutics, Inc., Lincoln, R., 02865, USA SO Exp. Neurol. (1999), 158(2), 265-278 CODEN: EXNEAC; 15SN: 0014-4886 PB Academic Press DT Journal LA English AB The isolation and expansion of human neural progenitor cells have important potential clin. applications, because these cells may be used as graft material in ****ccll**** ****therapics**** to regenerate tissue and/or function in patients with central nervous system (CNS) disorders. This paper describes a continuously dividing multipotent population of progenitor cells in the human embryonic forebrain that can be propagated in vitro. These cells can be maintained and expanded using a |
| KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, T1, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, T1, TM RW, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, TT, LU, MC, NL, PT, SE, BF, BI, CF, CG, CI, CM, GA, GN, ML, AR, NE, SN, TD, TG CA 2117655 AA 19970218 AU 9722779 A1 19970810 AU 1997-2217565 19970214 AU 691443 B2 19980511 EP 1997-2006022 19970214 AU 691443 B2 19980511 EP 1997-2006022 19970214 CA 21181704 A 19980513 CN 1997-530323 19970214 DP 11504351 T2 19990420 CN 1181704 A 19980513 WO 1997-4767 19971015 PRALUS 1996-60176 US 1996-710219 19960913 US 1996-710219 19960913 WO 1997-US2677 19970214 AB The present invention relates generally to methods for preventing and/or | and spiral ganglion ***neurons*** by administering glial cell line-derived ***neurotrophic*** factor (GDNF). The invention relates more specifically to methods for treating sensorineural hearing loss adm vestibular disorders. Thus, at 8 days after treatment of 4 guinea pigs with cisplatin the loss of hair cells in the middle turn of the cochlea was 44,7,42, and 41%, resp.; whereas, after injection of GDNF (1 mgmL) into the right middle ear, the hair cell loss was reduced to 16, 23, 21, and 29%, resp. L8 ANSWER 9 OF 277 CAPLUS COPYRIGHT 1999 ACS AN 1999-464356 CAPLUS DN 131:83970 TI Feline immunodeficiency virus gene therapy vectors IN Johnston, Julic C.; Sauter, Sybille L.; Hau, David; Sheridan, Philip Lee; Hardy, Stephen F.; Dubensky, Thomas W.; Yee, Jing-Kuan PA Chiron Corporation, USA SO PCT Int. Appl., 170 pp. CODEN: PLXXD2 DT Patent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE |

therapy. Therefore, new therapeutic protocols and trials need to be tightly the acute inflammatory response, and in particular to restrict prostatic carcinoma with ***neuroendocrine*** differentiation, including hormone-refractory cancer, is easily justified, since these candidates for drug ***therapy*** . A limited no. of hormones serotonin. ***Neuroendocrine*** differentiation in carcinoma their antagonists. An evaluation of this new therapeutic approach recruitment of neutrophils, in an attempt to protect itself from the neutrophils are not always excluded from the brain. Indeed, they II The therapeutic potential of CXC chemokine blockade in acute been tested in this context, in particular somatostatin, bombesin, potentially damaging consequences of inflammation in the brain. the host from pathogens and to promote tissue repair. However, found in large nos. in the brain parenchyma following traumatic AB A review with 63 refs. Mammalian ***neurons*** of the the androgen-independent state, for which there is currently no or infection results in a stereotypical inflammatory response to system (CNS) are terminally differentiated, and there is little Thus, it is apparent that the CNS has evolved mechanisms to capacity of the CNS to repair itself. Peripheral tissue injury, LIO ANSWER 3 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1999:237724 CAPLUS or "bystander" damage is characteristic of any inflammatory AU Anthony, Daniel C.; Walker, Katherine; Perry, V. Hugh CS CNS Inflammation Group, Centre for Neuroscience at developed to test drugs based on ***neuroendocrine*** prostate appears to be assocd. with poor prognosis, tumor tumors are unresponsive to current modes of therapy. SO Expert Opin. Invest. Drugs (1999), 8(4), 363-371 CODEN: EOIDER; ISSN: 1354-3784

PB Ashley Publications
DT Journal; ***General Review*** of Southampton, SO16 7PX, UK Southampton, University hormones and/or DN 131:39041 progression, and central nervous in the brain inflammation LA English endogenous successful collateral disease and in prostatic carcinoma. The prognostic and therapeutic implications have significant implications for the treatment of prostate cancer, as ***neuroendocrine*** differentiation in prostatic carcinoma are prognostic significance of ***neuroendocrine*** differentiation order to elucidate their significance for prognosis and therapy. The ***neuroendocrine*** phenotypic expression is not suppressed suggest that ***neuroendocrine*** differentiation, as reflected ***neuroendocrine*** secretory products, correlates with poor ***Neuroendocrine*** differentiation in prostatic carcinoma ***neuroendocrine*** differentiation, tumor progression, and ***neuroendocrine*** cells are devoid of androgen receptors ***neuroendocrine*** cells may play an important role in the AB A review, with 159 refs. Information is presented on prostatic markers such as chromogranin A and ***neuron*** -specific on its differentiation regulation, existence of neural stem cell in androgen-independent prostate cancer. The hormones, and the prostatic malignancy has been controversial, but recent studies towards the androgen-independent state of prostatic carcinoma. CS Department of Urology, University Hospitals of Malmo and adults, and possibility of clin. application of neural stem cells. reviewed. Data are presented that support the intriguing link LIO ANSWER 2 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1999:299361 CAPLUS ***neuroendocrine*** cells and ***neuroendocrine*** tumor progression, and androgen-independence. Since all expressed by prostatic ***neuroendocrine*** cells are increased tissue expression and/or blood levels of these ablation, clonal propagation of androgen receptor-neg. several of the hormones known to be expressed by SO Prostate (N. Y.) (1999), 39(2), 135-148 CODEN: PRSTDS; ISSN: 0270-4137 DT Journal; ***General Review*** of Lund, Lund, S-221 85, Swed. AU Abrahamsson, Per-Anders PB Wiley-Liss, Inc DN 131:128230 Lund, University investigated in differentiation English malignant ot .5

-differentiated, malignant prostatic ***cells*** are potential

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patients. Restricting leukocyte entry to the brain, thereby inhibiting
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                                                                                                                                                                 not successfully transferred from rodent models of stroke to human
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                                                                           ***Therapy*** targeted at blocking excitotoxic ***cell***
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       des Cancers (JE515), Facultes de Medecine et de Pharmacie,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               turn, activates effector caspases such as caspase-3. Bcl-2 and
                                                                                                                                                                                                                                                                                     the inflammatory response, may prove to be a more practical
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AN 1999:169142 CAPLUS
DN 131:3046
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            combines with APAF-1 in the presence of ATP to activate
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stroke lesions, and in rodents, during the "window of
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Schubert, P.; Ogata, T.; Miyazaki, H.; Marchini, C.; Ferroni, S.; DN 130:261279 Rudolphi, K. beta.-amyloid Neurobiology, English secondarily, effects on condition, signaling initially by the oxygen 253 ΑB Ŋ á DN 130:280356 TI Pathological immunoreactions of glial cells in Alzheimer's disease unsolved for years, but recent studies have provided evidence that a decreasing the prodn. of the amyloid-beta-peptide (A.beta.), a key AB A review, with 124 refs. Alzheimer's disease (AD) is one of the markedly reduced risk of developing AD. In addn., studies among received estrogen-replacement therapy (ERT), suggested that they AU Inestrosa, Nibaldo C.; Marzolo, Maria-Paz, Bonnefont, Andrea damage caused by oxidative stress, and a promoter of the physiol. women who already had AD indeed confirmed that a decrease in of the disease. In this review article, the authors will discuss the common types of dementia among the aged population, with a nonamyloidogenic processing of the amyloid precursor protein CS Departamento de Biologia Celular y Molecular, Facultad de evidence suggesting that estrogen may have a protective role prevalence in women. The reason for this latter observation of circulating estrogen in postmenopausal women could be a factor. Moreover, follow-up studies among postmenopausal LIO ANSWER 6 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1999:52452 CAPLUS LIO ANSWER 5 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1999:55994 CAPLUS mainly through its action as: a trophic factor for cholinergic levels was likely to be an important factor in triggering the ***neurons*** , a modulator for the expression of in the brain, an antioxidant compd. decreasing the Pontificia Universidad Catolica de Chile, Chile SO Mol. Neurobiol. (1998), 17(1-3), 73-86 CODEN: MONBEW, ISSN: 0893-7648 potential relevance for Alzheimer's disease DN 130:265542 TI Cellular and molecular basis of estrogen's Journal; ***General Review*** factor in the pathogenesis of AD. PB Humana Press Inc. DT Journal; ***Genera LA English apolipoprotein E (ApoE) ***neuroprotection*** •••neuronal••• women who had remained most had a <u>sc</u>

possible sites of interference

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resoln. of signs and symptoms in most patients, although a period of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          of the ***neurotoxic*** nucleoside analogs or be more carefully
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                                                                                                                                                                                                                                                                                                                                                                                           for developing peripheral ***neuropathy*** during nucleoside
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  prior history of an AIDS defining illness or neoplasm, a history of peripheral ***neuropathy***, use of other ***neurotoxic***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  managing this condition include levacecamine (acetyl-L-camitine)
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                                                                                                                                                                                                                                                                                           symptom intensification may occur shortly after withdrawal. Risk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 L10 ANSWER 8 OF 66 CAPLUS COPYRIGHT 1999 ACS
AN 1999:20180 CAPLUS
DN 130:205199
TI Cellular delivery of ***neurotrophic*** factors as a potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       monitored during therapy. Management of this problem includes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ***therapy*** include low CD4+ ***cell*** count (<100
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       anticonvulsant agents when pain is severe. New agents that may
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Department of Neuroscience, Alkermes, Inc., Cambridge, MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           such as low serum hydroxocobalamin levels. Thus, patients at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  consideration not to leave the patient on a sub-optimal therapy
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                                                                                                                                           ***neuropathy*** Prompt withdrawal of these therapies
    receiving stavudine or zalcitabine and 1 to 2% of didanosine
                                                                                                    may have to discontinue therapy with these agents due to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       including high alc. (ethanol) consumption and nutritional
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and simple analgesia, with augmentation with tricyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Jeffrey H. Publisher: Academic, San Diego, Calif.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          devastating
                                                             recipients
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                increased
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           regimen)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           assist in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 reverse transcriptase inhibitors represent an important contributor to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ***neurotoxic*** form. A no. of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  glial cells seem to be controlled by an altered balance of the second
                                                                                                                                                SO J. Neural Transm., Suppl. (1998), 54(Alzheimer's Disease: From
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              radicals from microglial cells, may cause an upregulated microglial activation and their prodn. of interleukin-1 which triggers,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the crucial activation of astrocytes. Reactive functional changes of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cell modulator adenosine which strengthens the cAMP-dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     in the feet, is often multi-factorial in its origin. Nucleoside analog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 A review with 29 refs. A significant role of a pathol. glial cell
activation in the pathogenesis of Alzheimer's disease is supported
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       growing evidence that inflammatory proteins, which are produced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AU Moyle, Graeme J., Sadler, Martin
CS Kobler Clinic, Chelsea and Westminster Hospital, London, UK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          common adverse experience in persons with HIV infection. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Peripheral ***neuropathy*** with nucleoside antiretrovirals:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  messengers Ca2+ and cAMP and can be counterregulated by the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          which presents as a pain, numbness, burning and/or dysesthesia
CS Department of Neuromorphology, Max Planck Institute for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       vicious circles, driven by the release of TNF-alpha and free
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  chain. A further reinforcement of the homeostatic adenosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     L10 ANSWER 7 OF 66 CAPLUS COPYRIGHT 1999 ACS
AN 1999:39754 CAPLUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       reactive astrocytes, promote the transformation of diffuse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          glial cells by drugs, such as propentofylline, may add to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ***neuroprotection*** in Alzheimer's disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A review with 67 refs. Distal sym. peripheral
                                                                                                                                                                                                                                           Research to Clinical Applications), 167-174
CODEN: INTSD4; ISSN: 0303-6995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CODEN: DRSAEA; ISSN: 0114-5916
                                                                                                                                                                                                                                                                                                                                           Springer-Verlag Wien
Journal; ***General Review***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Journal; ***General Review***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          factors, incidence and management
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Drug Saf. (1998), 19(6), 481-494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       deposits into the filamentous,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PB Adis International Ltd.
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                                                                                                    Martinsried, Austria
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peripheral ***neuropathy*** . Specifically, around 10% of

efficacy of a neural stem cell-based strategy for the replacement of defective or absent genes and cells, and has suggested that of the diseased or injured CNS with such cells may promote both repairing the CNS in genuine clin. settings using similarly well-characterized, fully controlled, multifaceted cellular tools of interventions. A growing body of evidence has, indeed, affirmed Thus, these vehicles may overcome many of the limitations of and stem cells are bringing us rapidly closer to the challenge of non-neural cellular vectors, as well as pharmacol. and genetic conditions. These recent expts. with clones of rodent neural yet unspecified signals elaborated during active and behavioral recovery in animal models of ***neurodegeneration*** ***neurodegenerative*** replacement of non-diffusible nevertheless may be used blood-brain properties, they may excellent viral and manner circuits, replace 뎙 ಜ delivered ***neurotrophic*** factors may provide one means of of ***neurotrophic*** factors that might slow the progression or means of delivering ***neurotrophic*** factors. Studies in both unclear, their clearcut potency in both rodent and primate models of chapter highlights the use of transplanted genetically modified cells as NGF and CNTF exert marked ***neuroprotective*** effects SO CNS Regener. (1999), 203-250. Editor(s). Tuszynski, Mark H., currently under preclin, investigation and clin, consideration is the rodent and nonhuman primate models of HD suggest that trophic clonal, multipotent neural stem cell lines have recently added an mechanisms by which these factors exert their beneficial effects such as Huntington's, Parkinson's, and Alzheimer's. Accordingly, prevent the onset of the behavioral and pathol. consequences of preventing the cell loss and assocd. behavioral abnormalities of A review with 112 refs. The establishment and use of stable, conditions including ischemia, and ***neurodegenerative*** Furthermore, excitotoxicity has been implicated in a variety of CS Center of Molecular Biology "Severo Ochoa,", Autonomous vulnerable striatal ***neurons*** that degenerate in HD. LIO ANSWER 9 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1999:20171 CAPLUS multiple therapeutic strategies. One of the more promising provide the hope that a means of preventing or slowing the the advent of appropriate animal models has permitted the progressive motor and cognitive declines in HD may be Jeffrey H. Publisher: Academic, San Diego, Calif. TI Neural stem cell lines for CNS repair AU Martinez-Serrano, Alberto, Snyder, Evan Y. Conference; ***General Review*** possibly other human disorders. Madrid-CSIC, Madrid, Spain CODEN: 67CYA3 DN 130:245945 University of Although the English evaluation of factors such relentlessly engraftable, approaches This these and upon the diseases pathol. remain even 且 ESe

diseased mammalian CNS. These neural stem cell clones can serve perhaps regulated fashion throughout the CNS (either because they intrinsically produce these substances or because they have been genetically engineered ex vivo to do so). Furthermore, although of altering their migration and differentiation in response to certain for ***neurodegenerative*** conditions that occur both during development and in the mature brain. In fact, they appear to be new dimension to strategies for cell replacement and gene transfer (circumventing the concern that in many alternative gene transfer convenient, well-controlled models for the in vivo study of CNS barrier to deliver therapeutic gene products in a sustained, direct, dysfunctional neural cells in both a site-specific and more global many of which may have degenerated). Neural stem cell clones techniques "new" genetic information is supplied to "old" neural development and regeneration; can constitute readily available, restrict that distribution to only the CNS. In addn., they may these cells are be able to bypass restrictions imposed by the multiple types of degenerated neural cells; and can provide disseminate these gene products throughout the brain, they factors directly to the CNS. By exploiting their basic biol. vehicles for the transfer of genes encoding diffusible and well-characterized, safe sources of graft material for the

AU Ray, Jasodhara; Palmer, Theo D.; Shihabuddin, Lamya S.; Gage, ***cells*** expressing ***therapeutic*** factors have been TI The use of neural progenitor ***cells*** for ***therapy**** SO CNS Regener. (1999), 183-201. Editor(s): Tuszynski, Mark H.; successfully used in animal models of ***neurodegenerative*** diseases. Ability to grow central nervous system (CNS)-derived ***neurol*** . diseases have been defined at the mol. level. L10 ANSWER 10 OF 66 CAPLUS COPYRIGHT 1999 ACS AB A review with 84 refs. In recent years a significant no. of CS Laboratory of Genetics, Salk Institute, La Jolla, CA, USA gene ***therapy*** using genetically modified non-Jeffrey H. Publisher: Academic, San Diego, Calif. DT Conference; ***General Review*** AN 1999:20170 CAPLUS DN 130:245944 CODEN: 67CYA3 CNS disorders ***nemonal *** LA English Kordower, Somatic Fred H. neural

phenomenon including the fate choice, differentiation, and synaptic cells implanted into the rodent brain survive, migrate, and integrate the host cytoarchitecture. These cells can be genetically modified express therapeutic gene products. The ability of the implanted progenitor cells has proven to be extremely useful to study a maturation of cells. Immortal or perpetual cultures of neural 5

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utility of this approach has already been explored in animal models integrate in the host brain and express transgene products in situ potential approaches for gene therapy in certain CNS diseases. cells to ö

neurodegenerative diseases. This chapter reviews the advances made in understanding the nature and potentiality of progenitor cells in vitro and in vivo as well as their possible use for ***cell*** replacement and gene ***therapy***

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LIO ANSWER 11 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1999:17041 CAPLUS DN 130:177630

to be reliably inferred. The corollary of these recent observations is mol. substrates which participate in toxic phenomena also subserve the cell's homeostatic machinery, Ca2+ ***neurotoxicity*** is a pathol. extension of physiol. Ca2+ signaling. Thus, future research Therapeutics, The Institute of Cancer Research, Surrey, SM2 5NG, signaling cascades for ***neurotoxicity*** to occur, since such cell, but also on the subcellular compartments to which Ca2+ ions fluorescent free Ca2+ indicators. However, Ca2+ ion fluxes must pathways must also be compartmentalized with toxic Ca2+ fluxes. using total Ca2+ flux measurements with radiolabeled Ca2+ ions, cascades do not appear to be triggered when Ca2+ ions enter cells implicated in numerous physiol. functions. Therefore, it is likely Ca2+ ***neurotoxicity*** on a given subcellular location of "non toxic" pathways. Thus, the mol. substrates governing toxic in Ca2+ ***neurotoxicity***, and at identifying mol. targets complex, as it depends not only on the quantity of Ca2+ which be aimed at revealing the specific signal transduction pathways CS Cancer Research Campaign Biomolecular Structure Unit and L10 ANSWER 14 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1998:798523 CAPLUS DN 130:148113 Tl Telomeres and telomerase: targets for cancer chemotherapy? access. This feature of Ca2+ ***neurotoxicity*** can be physiol. roles under less stressful conditions. This raises the pharmacol. or genetic manipulation might produce improved ***neurons***, toxic Ca2+ entry occurs through NMDA that " ***neurotoxic*** " Ca2+ ions must trigger specific meticulously restricted to distinct influx pathways for the likelihood that, rather than being caused by a non-specific Expert Opin. Ther. Pat. (1998), 8(12), 1567-1586
 CODEN: EOTPEG; ISSN: 1354-3776 ***therapies*** for Ca-mediated ***cell*** AU Perry, Philip J.; Kelland, Lloyd R. Journal; ***General Review*** PB Ashley Publications
DT Journal; ***General
LA English receptors which are Centre for Cancer dependence of measured both disruption of intracellular Ca2+ ions signaling or using In many involved through 8 4 ይ pathol. studies. It seems that retinal ganglion cells in glaucomatous optic ***neuropathy*** die by a process similar to programmed factors, affecting ***neuronal*** loss in glaucoma, and most of One of the common switches for the death mechanism seems to be conceptualized as an unusually large cellular Ca2+ load, is in itself elevation of glutamate, and disorganized NO metab. are suspected that can modulate the ***cell*** death process in the treatment death. In spite of the complexities assocd. with ***neuronal*** homeostasis, it appears that ***neurons*** possess a powerful SO Integr. Aspects Calcium Signalling (1998), 267-290. Editor(s): Verkhratsky, Alexej Nestorovich; Toescu, Emil C. Publisher: between Ca2+ influx and ***neurotoxicity*** is significantly in exptl. glaucomatous models and human glaucomatous eyes in A review with 85 refs. Apoptosis of retinal ganglion cells has death. Deprivation of ***neurotrophic*** factors, ischemia, AB A review, with many refs. Recent years have seen significant factors are known to activate the mechanism of cellular suicidal mitochondria and to be controlled by Bcl-2 family proteins. A our conceptualization of mechanisms by which Ca2+ ions may machinery for dealing with Ca2+ excess. Thus, "Ca2+ excess' Playfair Neuroscience Unit, The Toronto Hospital Research regulation. This information will lead to ***therapeutic*** L10 ANSWER 13 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1998:802182 CAPLUS ***neuropathy*** is to identify its mol. components and insufficient to cause ***neurotoxicity*** . Instead, the ***neuronal*** cell death research in glaucomatous DT Conference; ***General Review*** Journal; ***General Review*** Sattler, Rita; Tymianski, Michael glaucomatous ***neirropathy*** TI Calcium and cellular death CODEN: 67AWAL Toronto, ON, Can. DN 130:207923 mechanisms of York, N. Y. Plenum, New English advances in mediate cell major goal been obsd Institute, chronic in the ğ recent death. these AU CS ΑB 믕 Ŋ ಕ are effective in rat models of Parkinson's disease. These studies are chronic manner is problematic. Studies addressing this problem are amyotrophic lateral sclerosis (ALS). It remains to be detd. whether secrete factors that influence growth and differentiation of specific classes of ***neurons***. Glia are a likely source of addnl. ***neurotrophic*** factors; however, this strategy has not been since these diseases are slowly progressive and the CNS relatively extensively. The discovery of GDNF in 1993 led to an abundance ***Neuronal*** cell death mechanism in glaucomatous optic demonstrating the effectiveness of GDNF protein in ameliorating factor (GDNF) was identified as a consequence of the hypothesis applying viral vector mediated transfer of the GDNF gene to the order to deliver biosynthesized GDNF to a specific location in a reviewed in the context of what developments will be needed in that within only a few years qualified GDNF as a bona fide ***neurotrophic*** factor. Of particular interest are studies manner. Recent studies suggest that these GDNF gene therapy TI A commentary on glial cell line-derived ***neurotrophic*** inaccessible, the delivery of GDNF as a therapeutic mol. to the ***neurodegeneration*** in animal models of Parkinson's L10 ANSWER 12 OF 66 CAPLUS COPYRIGHT 1999 ACS Department of Ophthalmology, National Defence Medical Children's Memorial Institute for Education and Research, will be an effective therapy in humans with these diseases. SO Nippon Ganka Gakkai Zasshi (1998), 102(10), 645-653 CODEN: NGZAA6, ISSN: 0029-0203 PB Nippon Ganka Gakkai (GDNF): from a glial secreted molecule to gene therapy University Medical School, Chicago, IL, 60614, USA SO Biochem. Pharmacol. (1999), 57(2), 135-142 CODEN: BCPCA6, ISSN: 0006-2952 AB A review, with 72 refs. Glial cell line-derived AU Murakami, Akira; Okisaka, Shigekun apply GDNF gene therapy to the clinic. PB Elsevier Science Inc.
DT Journal; ***General Review***
LA English 1999:10481 CAPLUS ***neuropathy*** AU Bohn, Martha C. AN 1999:10481 DN 130:221120 College, Japan Northwestern disease and approaches of studies CNS in a applied chronic GDNF S

AU Koliatsos, Vassilis E.; Mocchetti, Italo Conference; ***General Review*** Conference; ***General Review*** Medicine, Baltimore, MD, USA ***neuronal*** death Tymianski, Michael ***neurotoxicity*** CODEN: 67ARA6 Toronto, ON, Can. CODEN: 67ARA6 diseases therapy Neuroscience, and DN 130:163259 congenital retinal DN 130:90564 conclusions. English English role of Ca2+ death as a School of death and Koliatsos, Hospital, Koliatsos, factors ΑŪ ᄓ D ΓĄ LA ğ ᆵ telomerase appears to be selectively expressed in tumors vs. normal proposed to act via stabilization of guanine-quadruplexes, structures diagnostics area, around 85% of human cancers have been shown to will be developed thus permitting further target validation expts. to interaction. Small-mol. inhibitors of telomerase have recently been diones (the best of which inhibit telomerase in cell-free assays with antisense oligonucleotides and peptide nucleic acids (PNAs), some telomerase/telomere machinery including the hTR template region performed in tumor-bearing mice and ultimately in cancer patients. engineering, diagnostics/prognostics and ***therapeutics***. many have proposed that the enzyme represents a good target for inhibition. Efforts are underway to target various components of monitor residual disease following surgery and/or chemotherapy. telomerase activity, while such activity is not detectable in most cells. In some cases (notably ***neuroblastomas***, gastric breast tumors), higher levels of telomerase activity were assocd. poor prognosis. Telomerase activity, which has generally been values of 1 - 5 .mu.M) and porphyrin-based mols. These mols. component (hTR); the human telomerase reverse transcriptase assocd. with telomeres and telomerase. Reverse transcriptase using a highly sensitive PCR-based TRAP assay, may also be LIO ANSWER 15 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1998:787844 CAPLUS This will clearly be an area where, in the near future, potent comprising of, at present, 3 known components: the human such as AZT triphosphate, have also been shown to inhibit subunit (hTERT), and TP1, a telomerase-assocd. protein. involving telomerase have been proposed in the fields of AB A review with 141 refs. Telomerase is a specialised described. These include a series of regioisomeric inhibit at the nanomolar level, hTERT, and the diamidoanthracene-9,10telomere/telomerase telomerase RNA ***cellular*** Applications assessed to have been possess somatic With 뗥 흄 뱕 Ą,

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the combination of gemcitabine and paclitaxel therapy appears to be
                                                                                                                                                                                                                                                                                                                                                                                         regeneration from neural precursor cells; mol. mechanism of retina
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Il trials of gemcitabine/paclitaxel combination therapy in advanced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ***neuroretina*** regeneration, gene ***therapy*** , retina
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        toxicities included alopecia, fatigue, and flu-like symptoms, which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         well-tolerated, with response rates ranging 29%-58% and hematol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   also mild to moderate. However, grade 2/3 ***neurotoxicity***
                                                                                                                                                                                                                                          AB A review with 13 refs., on history of retina regeneration; retinal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 with cisplatin, in the ***therapy*** of non-small- ***cell***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cancer (NSCLC) with promising results. The lack of overlapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       also reported. In conclusion, preliminary results from these early
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ***cell*** transplant, and ***neurotrophic*** and growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TI Generation and paclitaxel combinations in non-small-cell lung
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and different mechanisms of action of gemcitabine and paclitaxel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      phase I and II trials are evaluating the use of this combination of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               combination of these drugs appealing in the treatment of NSCLC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              with advanced NSCLC. In ongoing phase II trials using a 21-day
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CS Department of Oncology, Herlev Hospital, Herlev, DK 2730,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             toxicities that are mild to moderate in sevenity. Other reported
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cytotoxic agents as 1st-line therapy and as 2nd-line therapy in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AB A review with 44 refs. Gemcitabine and paclitaxel are new
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      that have been used both as single agents and in combination,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LIO ANSWER 18 OF 66 CAPLUS COPYRIGHT 1999 ACS
AN 1998:582020 CAPLUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AU Dombernowsky, Per, Giaccone, Giuseppe, Sandler, Alan,
                                                                                                                                                                                                                                                                                                                                                                                                                                         regeneration; and therapy of congenital retinal diseases by
                                                                                                                                                                                                                                                                                                                                     epithelial cell differentiation in retina regeneration; retina
SO Rinsho Kagaku (Osaka) (1998), 34(9), 1276-1282
CODEN: RIKAER; ISSN: 0385-0323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SO Semin. Oncol. (1998), 25(4, Suppl. 9), 44-50 CODEN: SOLGAV, ISSN: 0093-7754
                                                                                                                                               DT Journal; ***General Review***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DT Journal; ***General Review***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PB W. B. Saunders Co.
                                                                                               PB Esuato K. K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DN 129:339341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cytotoxic agents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Schwartsmann,
                                                                                                                                                                                              LA Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LA English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gilberto
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        factors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer
                                                                                                                                          CS Neuroprotection Laboratory, Playfair Neuroscience Unit, Toronto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ***neurobiol *** . of trophic factors (basic tenets); clin. potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         utilization; challenges in the clin. pharmacol. of trophic factors; and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             II Trophic factors as therapeutic agents for diseases characterized by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Psychiatry and Behavioral Science, The Johns Hopkins University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AB A review with 305 refs. with the following key sections: trophic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A review, with 137 refs., discussing current knowledge on the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ***therapeutic*** target (distal and proximal interventions);
                                           II Approaches in treating nerve cell death with calcium chelators
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          trophic peptides; novel concepts in the ***neurobiol*** . of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              factors; activity-related changes in trophic factor expression and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   buffers as probes of mechanisms leading to nerve ***cell***
                                                                                                                                                                                                                                                                                                                                                                            Vassilis E.; Ratan, Rajiv R. Publisher: Humana, Totowa, N. J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Vassilis E.; Ratan, Rajiv R. Publisher: Humana, Totowa, N. J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   as biol. ***therapies***; ***neuronal*** ***cell***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LIO ANSWER 16 OF 66 CAPLUS COPYRIGHT 1999 ACS
AN 1998:787842 CAPLUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LIO ANSWER 17 OF 66 CAPLUS COPYRIGHT 1999 ACS
AN 1998:704109 CAPLUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     as potential ***therapeutic*** agent for Ca2+-dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CS Departments of Pathology (Neuropathology), Neurology,
                                                                                                                                                                                                                                                                                     SO Cell Death Dis. Nerv. Syst. (1999), 609-631. Editor(s):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SO Cell Death Dis. Nerv. Syst. (1999), 545-591. Editor(s):
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AU Tomita, Hiroshi; Abe, Toshiaki; Tamoi, Makoto CS Medical School, Tohoku University, Japan
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are encouraging

AU Sanberg, Paul R.; Willing, Alison E.
CS Div. Neurosurgery & Neurosci. Progr., University of South LIO ANSWER 19 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1998:412985 CAPLUS approaches for ***Cellular*** ***therapeutic***
neurodegenerative disorders FL, 33612, USA 129:134324 Florida, Tampa,

SO Nucleic Acids Symp. Ser. (1998), 38(Advances in Gene Technology: Molecular

Biology in the Conquest of Disease), 139-142 CODEN: NACSD8; ISSN: 0261-3166

PB Oxford University Press
DT Journal; ***General Review***
LA English

transplantation in Parkinson's disease; fetal tissue transplantation; xenografts of fetal tissue; alternate sources of dopaminergic cells; issues of graft rejection; enhancing graft survival with growth AB A review, with 37 refs. Topics discussed include: cellular

Sertoli cells and Parkinson's disease; cell transplantation in Huntington's disease; and transplantation in stroke models. L10 ANSWER 20 OF 66 CAPLUS COPYRIGHT 1999 ACS AN 1998:322517 CAPLUS

1998:322517 CAPLUS

DN 129:75851

TI Adenosine A2B receptors: a novel therapeutic target in asthma? AU Feoktistov, Igor, Polosa, Riccardo; Holgate, Stephen T.;

Div. Cardiol., Vanderbilt Univ., Nashville, TN, 37232-2195, Biaggiioni, Italo ဗ

SO Trends Pharmacol. Sci. (1998), 19(4), 148-153 CODEN: TPHSDY; ISSN: 0165-6147

PB Elsevier Science Ltd.
DT Journal; ***General Review***

LA English AB A review with 67 refs. Adenosine is an endogenous nucleoside that

modulates many physiol. processes. Its actions are mediated by interaction with specific cell membrane receptors. Four subtypes of adenosine receptor have been cloned: A1, A2A, A2B and A3. Significant

advancement has been made in our understanding of the mol. pharmacol. and receptors lags behind that of other receptor types. Only recently

physiol. relevance of adenosine receptors but our knowledge of

potentially important functions been discovered for the A2B

prompting a renewed interest in this receptor types. A2B receptors

been implicated in the regulation of vascular smooth muscle tone,

growth, intestinal function and ***neurosecretion*** In this

the authors focus on the role of A2B receptors in mast cell the potential relevance of this action on asthma. activation and

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FULL ESTIMATED COST

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Medicus (CIM), has been added to MEDLINE. See HELP CONTENT for details Left, right, and simultaneous left and right truncation are available in Basic Index. See HELP SFIELDS for details THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE SUBSTANCE IDENTIFICATION.

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0 (THERAP?)/AB 1849421 (THERAP?)/BI 11352 (CELL?)/SA)(THERAP?)/AB,BI 'AB' IS NOT A VALID FIELD CODE 1853952 CELL?

559 L2 AND NEURO?/AB,BI 620325 NEURO?/BI 0 NEURO?/AB []

=> s 111 and (unpredict? or problem?)/ab,bi

'AB' IS NOT A VALID FIELD CODE 0 UNPREDICT//AB 4788 UNPREDICT//BI 0 PROBLEM?/AB

28 L11 AND (UNPREDICT? OR PROBLEM?)/AB,BI 291782 PROBLEM?/BI L12

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YOU HAVE REQUESTED DATA FROM 28 ANSWERS -CONTINUE? Y/(N):y

L12 ANSWER 1 OF 28 MEDLINE AN 1999360700 MEDLINE

DN 99360700

II Convection-enhanced selective excitotoxic ablation of the

of the globus pallidus internus for treatment of parkinsonism in ***neurons*** nonhuman

AU Lonser R R; Corthesy M E; Morrison P F; Gogate N; Oldfield E

CS Surgical Neurology Branch, National Institute of Neurological and Stroke, and Bioengineering and Physical Science Program, Disorders

SO JOURNAL OF NEUROSURGERY, (1999 Aug) 91 (2) 294-302 Institutes of Health, Bethesda, Maryland 20892-1414, USA National

fournal code: JD3. ISSN: 0022-3085.

CY United States DT Journal; Artic

Journal; Article; (JOURNAL ARTICLE)

LA English

FS Abridged Index Medicus Journals; Priority Journals; Cancer

EM 199910 **Journals**

EW 19991003

AB OBJECT: Selective treatment of central nervous system (CNS)

holds therapeutic promise for many ***neurological*** structures

including Parkinson's disease (PD). The ability to inhibit or augment

specific ***neuronal*** populations within the CNS reliably by

problem, the authors modeled and developed a method present therapeutic techniques is limited. To overcome this in which

convection was used to deliver compounds to deep brain nuclei in a reproducible, homogeneous, and targeted manner. To determine the

extremely effective for many inflammatory diseases, as well as in autoimmune and ***neurologic*** diseases. This paper outlines operation. Asahi Medical Co. has developed an innovative solution conventional ***problems*** . Its new leukocyte removal filter separation; namely the high risk, expensive cost, and complicated (Cellsorba) is capable of removing white blood cells by perfusion ***therapy*** using the ***Cellsorba*** column is being TI Penpheral ***neuropathy*** with nucleoside antiretrovirals: TI Leukocytapheresis therapy by extracorporeal circulation using a information about the Cellsorba column and introduces several AB Leukocytapheresis therapy has been used to try to treat such results. However, a number of ***problems*** have been Kobler Clinic, Chelsea and Westminster Hospital, London, diseases as autoimmune and ***neurologic*** diseases, leukocyte removal by thoracic duct drainage or continuous SO DRUG SAFETY, (1998 Dec) 19 (6) 481-94. Ref: 67 AU Suemitsu J, Yoshida M, Yamawaki N, Yamashita Y SO Ther Apher, (1998 Feb) 2(1) 31-6. Ref: 12 blood by means of simple extracorporeal circulation. Journal; Article; (JOURNAL ARTICLE) Journal code: AHQ. ISSN: 0114-5916. Journal code: DBB. ISSN: 1091-6660. factors, incidence and management. L12 ANSWER 3 OF 28 MEDLINE General Review; (REVIEW) 1999094700 MEDLINE General Review; (REVIEW) (REVIEW LITERATURE) (REVIEW, TUTORIAL) removal filter [editorial]. AU Moyle G J; Sadler M therapeutic results. LA English FS Priority Journals Priority Journals CY United States CY New Zealand Leukocytapheresis LA English FS Priority Journ EM 199906 EW 19990603 19990703 99094700 achieving good Editorial EM 199907 confirmed as identified in intractable centrifugal England. for such of whole ĒΜ S mulatta), seven adult monkeys of this species were rendered either underwent GPi lesioning with QA had substantial improvement of +/- standard deviation) and dramatic improvement of parkinsonian Histological examination revealed selective neural ablation of GPi selectively ablated globus pallidus internus (GPi) ***neurons*** trophic treatment of other targeted structures associated with CNS parkinsonian by intravenous injections of MPTP (five animals) or matter structures. No animal developed worsening signs of PD or chemical ***neurosurgery*** for medically refractory PD and change = -1.5 +/- 0.5%). The two hemiparkinsonian animals that QA lesioning of the GPi had dramatic recovery of extremity use. ***neurons*** (mean loss 87%) with sparing of surrounding ***neurological*** deficits after infusion. CONCLUSIONS: convection-enhanced delivery indicate that this method could be (two monkeys). Using convection-enhanced delivery to the GPi, scores. In contrast, the control animals did not improve (activity in dramatic improvement in parkinsonian symptomatology. The treatment of a ***neurological*** disorder, the investigators (GPi), and safe lesioning of ***neuronal*** subpopulations, After the parameters of convective distribution to the GPi were symptoms, manifested by a marked increase in activity (34 +/hemiparkinsonian by a right-sided intracarotid injection of this feasibility and clinical efficacy of convective drug delivery for by infusion of biotinylated albumin into the GPi of a primate saline (two fully parkinsonian). The three fully parkinsonian may be ideal for ***cell*** -specific ***therapeutic*** Convection-enhanced delivery of QA permits selective, tetrahydropyridine (MPTP)-induced model of primate infused with either QA (three fully parkinsonian, two quinolinic acid (QA), an excitotoxin, in the L12 ANSWER 2 OF 28 MEDLINE AN 1999242345 MEDLINE DN 99242345 parkinsonism. METHODS: 1-methyl-4-phenyl-1,2,3,6hemiparkinsonian) or gray and white region-specific animals were properties of disorders. animals that 2.5%; mean ablation or confirmed monitor used for (Macaca clinical agent δ.

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low CD4+ ***cell*** count (<100 cells/mm3), a prior history of
                                                                                   as a pain, numbness. burning and/or dysaethesia initially in the feet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ***neuropathy*** during nucleoside analogue ***therapy***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         education. prompt withdrawal of the likely causative agent (giving
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         managing this condition include levacecamine (acetyl-L-camitine)
                                                                                                                                                                                                                                                                                                                                                                                   stavudine or zalcitabine and 1 to 2% of didanosine recipients may
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       discontinue therapy with these agents due to ***neuropathy***
experience in persons with HIV infection. This condition, which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CS Center for Cell and Gene Therapy, Baylor College of Medicine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          withdrawal of these therapies enables gradual resolution of signs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           , use of other ***neurotoxic*** agents including high alcohol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     during therapy. Management of this ***problem*** includes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         anticonvulsant agents when pain is severe. New agents that may
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ***neurotoxic*** nucleoside analogues or be more carefully
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             may occur shortly after withdrawal. Risk factors for developing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ethanol) consumption and nutritional deficiencies such as low
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nerve growth factors such as recombinant human nerve growth
                                                                                                                                                                      often multi-factorial in its origin. Nucleoside analogue reverse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  consideration not to leave the patient on a sub-optimal therapy
                                                                                                                                                                                                                        transcriptase inhibitors represent an important contributor to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hydroxocobalamin levels. Thus, patients at increased risk of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        should potentially avoid the use of the
                                                                                                                                                                                                                                                                                                ***neuropathy*** . Specifically, around 10% of patients
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 symptoms in most patients, although a period of symptom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and simple analgesia. with augmentation with tricyclic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            defining illness or neoplasm, a history of peripheral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   II Use of gene marking technologies in oncology.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  L12 ANSWER 4 OF 28 MEDLINE
AN 1999081926 MEDLINE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ***neuropathy***
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AB Distal symmetrical peripheral ***neuropathy*** is a common

integrate in cells that are not in cycle at the time of vector exposure. generation studies with multiple, modified vectors are beginning to of the cells' behaviour. Finally, marker studies have proved safe so provide information about a wider variety of clinical and biological useful information to be obtained. This ***problem*** may be relapse, indicating that infused stem cells can contribute to disease in vivo, these studies have also helped us learn how haemopoietic facilitated by gene marking studies. These studies have shown the recurrence. As normal progenitor cells are also marked and can be issues, including the efficacy of purging. Although marker studies AB Investigation of the mechanism of relapse in patients receiving by the introduction of vectors that, unlike retroviruses, can stably stem gene to be present in malignant cells in the patient at the time of Other improvements will focus on the marker genes themselves, they are hampered by the low efficiency of marking achieved by cells respond to manipulation, for example with growth factors. elements that are simpler to track and will not produce any vectors. For many malignancies, marking efficiencies are been useful for haematological malignancy and for but follow-up of the treated patients continues 「 Ioumal; Article; (JOURNAL ARTICLE) General Review; (REVIEW) (REVIEW, TUTORIAL) ***neuroblastoma*** LA English EM 199904 EW 19990401 insufficient for using marker modification CY Italy DT Journa retroviral Second tracked have Descense of the second

differentiation, and discuss the presented strategies in the context of AB Multiple sclerosis (MS), the most common ***neurological*** disorder diagnosed in young adults, is characterised by the repeated evidence for beneficial effects of IVIg therapy on the promotion of remyelination in the CNS of different animal models: Application immunoglobulin (IVIg) ***therapy*** . However, the systemic ď the regulation of myelin sheath development and oligodendrocyte of growth factors could be limited by effects on unaffected tissue. AU Sangalli A; Taveggia C; Salviati A; Wrabetz L; Bordignon C; a potential strategy for therapeutic intervention in MS and other demyelinating diseases. Three different principles are known to transfer arylsulfatase A to myelinating glia and deficient cells in (CNS). Promotion of remyelination in the brain and spinal cord Currently the required combination of growth factors needed to human homologous cells is not known, so that cells suitable for occurrence of demyelinating lesions within the central nervous factors, transplantation of myelin-forming ***cells*** and remyelination in humans. In this review we summarise recent successful transplantation we still have the *** problem*** homologous cells not tolerated by a immunological different transplantation are still not available. Nevertheless, there is Transduced fibroblasts and metachromatic leukodystrophy SO NERVENARZT, (1998 Oct) 69 (10) 841-50. Ref: 112 Journal code: NWS. ISSN: 0028-2804. possible clinical application for the therapy of MS. CY GERMANY: Germany, Federal Republic of F Journal; Article; (JOURNAL ARTICLE) General Review; (REVIEW) L12 ANSWER 6 OF 28 MEDLINE AN 1998430737 MEDLINE 1998430737 MEDLINE (REVIEW, TUTORIAL) LA German FS Priority Journals EM 199904 EW 19990402 98430737 Severini G M lymphocytes autoimmune intravenous constitutes application of growth organism. cultivate promote For

CY United States

CS Neurologische Klinik, Ruhr-Universitat Bochum am St. Josef

AU Pohlau D; Aktas O; Epplen C; Hartung HP; Hoffmann V;

Sklerose?

S

Remyelinisierungsforderung als zukunftiges Therapieprinzip der

sclerosis?]

multiple

Promoting remyelination as a future therapeutic principle in

L12 ANSWER 5 OF 28 MEDLINE 1999051537 MEDLINE

99051537

the retrovirus-mediated ASA transduction of cells, such as activated lymphocytes, that are able to traverse the BBB or other membranes by deficiency of arylsulfatase A (ASA), that manifests primarily in fibroblasts could efficiently transfer ASA to deficient cells across a exists that will reverse its fatal outcome. Replacement therapy has CNS. For this purpose, two recombinant retroviruses based on the via transduced autologous cells while long-term strategies, related Moreover, cell culture experiments demonstrated that transduced suggest possible short-term strategies for transfer of ASA into the ***problem*** we designed an ex vivo gene therapy strategy to deficient fibroblasts only by direct cell-to-cell contact. Finally, was taken up by normal oligodendrocytes and Schwann cells, the CS Molecular Neurobiology Laboratory, Department of Neurology vector were produced, containing the wild-type ASA cDNA or a AB Metachromatic leukodystrophy (MLD) is a lysosomal storage hampered by the blood-brain barrier (BBB). To circumvent this pseudodeficiency ASA cDNA, which encodes a smaller enzyme fibroblasts from an MLD patient. Furthermore, ASA-transduced myelinating glial ***cells*** for ***therapy*** in MLD. transwell barrier, whereas transduced MLD lymphocytes could TI Lack of immune responses to immediate or delayed implanted AU Hermanns S; Wunderlich G; Rosenbaum C; Hanemann C O; activity. After transduction, ASA activity increased more than expressed 30 times higher ASA activity when compared with autologous transduced bone marrow transplant, take effect in white matter of the nervous system. Currently, no specific xenogeneic Schwann cell suspensions. L12 ANSWER 7 OF 28 MEDLINE AN 1998043387 MEDLINE DN 98043387 Muller H W; Stichel C DT Journal; Article; (LA English FS Priority Journals EW 19990204 disease, caused allogeneic and control PBLs. transfer ASA that includes EM 199902 with normal MLD PBLs 100-fold in These data treatment pLXSN patients. of the target the ន Department of Biology and Genetics, University of Verona, Italy. HUMAN GENE THERAPY, (1998 Sep 20) 9 (14) 2111-9. Journal code: A12. ISSN: 1043-0342.

Journal; Article; (JOURNAL ARTICLE)

SO FORUM, (1998 Oct-Dec) 8 (4) 342-53. Ref: 67 Journal code: C0R. ISSN: 1121-8142.

developments in gene delivery to the brain for some conditions may be efficient, effective, and safe strategies for the passive delivery of therapeutic molecules to discrete regions of the CNS. In fact, this tissue originating from brain may intrinsically produce various CNS genetic manipulation (Fisher, 1997) and refining techniques for the and Fisher, 1996). For a wide variety of conditions, however, using leave engineered nonneural ***cells*** incapacitated, whereas loss of foreign gene expression (the bane of gene ***therapy*** injection of therapeutic genes into ***neurons*** in vivo (see as-yet-unrecognized endogenous neuralspecific substances which ectopic release may actually be inimical to the host. Furthermore, factors allowing correction to proceed despite inactivation of the emphasize using ***neurons*** or neural progenitors for ex TI Cellular and molecular ***neurosurgery*** : pathways from AU Zlokovic B V; Apuzzo ML QCS Department of Neurological Surgery, Childrens Hospital Los approach may come closer than any other to immediate human reality--part I: target disorders and concept approaches to gene AB Recent advances in cellular and molecular biology and better SO NEUROSURGERY, (1997 Apr.) 40 (4) 789-803; discussion disorders have made gene therapy of the CNS a realistic goal. as beneficial to the host as the gene in question. Thus, future Angeles, University of Southem California School of Medicine, USA. of genetic and biochemical bases of different central nervous nonneuronal cellular vehicles or even nonbiologic synthetic introduced gene. In fact, CNS-derived tissue may provide Journal; Article; (JOURNAL ARTICLE) Journal code: NZL. ISSN: 0148-396X.
CY United States
DT Journal: L12 ANSWER 9 OF 28 MEDLINE AN 97246615 MEDLINE DN 9724615 General Review; (REVIEW) of the central nervous system (REVIEW, ACADEMIC) LA English FS Priority Journals EW 19970901 understanding system (CNS) EM 199709 vehicles may applications. concept to are equally direct VIVO sustained transgene expression by varying the promoters, by varying promoter function or substrate availability. While nonneuronal cells AB The implantation of genetically engineered nonneuronal cells can regulated release of certain substances through feedback loops may Most primary nonneuronal cells have the advantage of being easily engraftment. Much effort is currently being directed at optimizing excellent vehicles for achieving passive delivery of substances to missing. While apparently unimportant for some substances (e.g., CS Department of Neurology, Harvard Medical School, Children's Boston, Massachusetts 02115, USA. SO NEUROBIOLOGY OF DISEASE, (1997) 4 (2) 69-102. Ref: ರ an effective method for achieving localized delivery of discrete rejection). As primary cells, they are unlikely to be tumorigenic. not only may certain essential circuits not be re-formed, but the in a functional manner (e.g., make synaptic contacts). For this most vexing ***problem*** for such systems remains the of transgene expression from viral promoters after prolonged to the CNS or for providing substrates for regrowth of neural as an autologous graft (circumventing the ***problem*** cell types to be engineered, or by regulating expression by genetic manipulation (most will be mitotic in culture) and CNS, they lack the ability to incorporate into the host TI The use of nonneuronal cells for gene delivery. obtainable from the prospective host for ex vivo United States
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW) Journal code: CUN. ISSN: 0969-9961 MI2 ANSWER 8 OF 28 MEDLINE AN 97472951 MEDLINE DN 97472951 Snyder E Y; Senut M C (REVIEW, ACADEMIC) LA English FS Priority Journals EM 199801 retrovirus-mediated EW 19980104 reimplantation apparent loss molecules structures. periods of enhancing ACh), for Hospital, immune provide) AU ζ Ы the are ይ 9 < for up to 10 weeks after implantation, and (3) delayed implantation injected either immediately or after a delay into the transection site with immunocytochemical methods. Our main findings are that (1) Cultured Schwann cells from Wistar rat or human peripheral nerve offers a potential ***therapeutic*** approach to a variety of ***neurodegenerative*** disorders and traumatic injuries. In a tract, the transected postcommissural fornix of the adult Wistar rat. xenogeneic discordant Schwann cell suspension grafts, from either Schwann cells will be required. In the present study we addressed reactions to heterogenetic Schwann cell suspension grafts and that only sparse infiltration of T-lymphocytes, (2) both allogeneic and grafts. These results demonstrate that there is no marked ongoing functional transplantation of Schwann cells across immunological important issue and analysed the immunogenicity and survival of the spatio-temporal pattern of leukocyte infiltration and of major and xenogeneic Schwann cell suspension grafts in a prelesioned long-term survival of cross-species Schwann cell grafts can be procedures have no effect on immune responses to allogeneic cerebral lesions induce the expression of MHC class I and II or adult peripheral nerve, survive without any overt signs of histocompatibility antigen expression was characterized and seem to be favourable and will have implications for future the absence of any immunsuppressive treatment. Thus the AB Previous studies have shown that Schwann ***cell*** clinically relevant paradigm, however, the implantation of Schwann cells is ***problematic*** and the use of studies, and possibly also for clinical application. Journal; Article; (JOURNAL ARTICLE) SO GLIA, (1997 Nov) 21 (3) 299-314. Journal code: GLI. ISSN: 0894-1491 Priority Journals CY United States 19980204 semiquantified LA English FS Priority Jo EM 199802 heterogenetic antigens, but Schwann cell implantation autologous Dusseldorf allogeneic CNS fiber invasive th:

approaches for gene therapy of CNS disorders are reviewed and

others (e.g., NGF), their unregulated, inappropriate, excessive, or

SO CLINICAL NEUROSCIENCE, (1995-96) 3 (5) 317-21. Ref: 42 the way to the development of novel therapeutic approaches. Gene AB In 1995 the Anders Jahre Prize for medical research was shared by Professor Lars Olson, Stockholm (Nord Med 1/96), and Professor offer great potential as vehicles for ex vivo gene ***therapy*** recombinant adenoviruses are promising for in vivo gene therapy now enables researchers to overcome certain ***problems*** ***neurodegenerative*** diseases. This paper describes the TI [***Cell*** transplantation and gene ***therapy*** in ***neuroprotective*** (Ad-SOD), ***neurotrophic*** pharmacotherapy and to the grafting of embryonic cells. The as restorative (Ad-TH) strategies. In addition, human neural Wallenberg Neurocentrum, Institutionen for Fysiologi och Bjorklund, Lund. Using newly developed methods, Anders Celltransplantation och genterapi vid Parkinsons sjukdom. replace degenerated ***cells*** in advanced stages of mapped important parts of the central nervous system and AB The discovery of major ***neurodegenerative*** SO NORDISK MEDICIN, (1996 Sep) 111 (7) 225-9. values of the new generations of adenoviral vectors. Journal; Article; (JOURNAL ARTICLE) Journal; Article; (JOURNAL ARTICLE) Journal code: B9U. ISSN: 1065-6766. Journal code: O4K. ISSN: 0029-1420 L12 ANSWER 11 OF 28 MEDLINE General Review; (REVIEW) 96399809 MEDLINE (REVIEW, TUTORIAL) mechanisms has opened LA English FS Priority Journals unds Universitet. CY United States Bjorklund A EM 199705 EW 19970503 (Ad-NGF) as well Neurovetenskap, 60866596 19970104 Sweden Swedish Bjorklund has production of 199701 progenitors disease). inherent to Parkinson involving therapy clinical Ν ΑC ЕM ĀN CY ΓĄ ΕW SS Ы 2 ***neurotransmitter***, and/or growth factor are discussed with associated with the concepts of gene therapy, such as transient gene , fetal ***neurodegenerative*** disorders and stroke. Transfection of brain turnors are also discussed. Other approaches, such as transfer and the ***problem*** of immune response to the transfected for several groups of CNS disorders, the issues that remain to be deficiencies, 2) brain repair to restore the function of a particular discussed. In addition to summarizing current principles of gene process; 3) gene therapy of brain tumors; and 4) gene therapy of inherited global ***neurodegenerative*** disorders, such as drug-resistant genes and monoclonal antibody gene transfer, are II Adenovirus for ***neurodegenerative*** diseases: in vivo tumor cells with the drug susceptibility ("suicide") gene and/or AU Sabate O; Barkats M; Buc-Caron M H; Castel-Barthe M N; CNRS C 9923, Laboratoire de Genetique Moleculaire de la in clinical reality, such as delivery of the genetic material and regulation of the cellular expression of the transgene, and the following: 1) gene replacement with a single normal allele to expression, toxicity of viral proteins, drawbacks of antisense et des Processes Degeratifs, Hopital de la Pitie, Salpetrid'ere neural progenitor cells, and production of a specific enzyme, gene, transplantation of genetically modified ***cells*** embryonic implantation and/or implantation of genetically and ex vivo gene therapy using human neural progenitors to the therapeutic potential for global and localized CNS Techniques of viral vector-mediated CNS transfer of a gene and antisense strategies and a concept of adoptive subset of cells that were lost because of a L12 ANSWER 10 OF 28 MEDLINE AN 97071954 MEDLINE have been also identified. ***neurodegenerative*** P, Revah F, Mallet J ***therapeutic*** Finiels F, Horellou immunotherapy of DN 97071954 engineered the CNS resolved S 늉

therapeutically transplanted ***neurones*** to parts of the brain that, owing to disease or injury, are deficient in essential

neurotransmitters . During recent years, the

transplantation of

procedure in Parkinson's disease. Although promising results have fetal nerve cells has been introduced as a possible new therapeutic

effectiveness and reproducibility. Moreover, an essential long-term obtained in clinical trials both in Europe and North America, the technique needs further improvement to enhance cell survival,

is to eliminate dependence on a continuous supply of fetal tissue,

is both ethically and practically ***problematic*** . Current

is focused on ways to promote the survival and growth of grafted research

and on the use of gene transfer procedures to generate alternative doparmine-producing of trophic factor-producing cells

LI2 ANSWER 12 OF 28 MEDLINE AN 96227618 MEDLINE DN 96227618

TI [Insulin producing ***cells*** as ***therapy*** in diabetes mellitus].

insulinsezernierende Zellen zur Therapie des Diabetes mellitus. AU Schnedl W J; Hohmeier H E; Newgard C B

CS Medizinische Universitatsklinik, Karl Franzens Universitat, Graz SO NATURWISSENSCHAFTEN, (1996 Jan) 83 (1) 1-5. Ref. 41

Journal code: NSW. ISSN: 0028-1042.

CY GERMANY: Germany, Federal Republic of DT Journal, Article; (JOURNAL ARTICLE) General Review; (REVIEW) (REVIEW, TUTORIAL)

LA German FS Priority Journals

EM 199609

physiological blood glucose levels in insulin-dependent diabetes AB Even with intensive insulin therapy it is impossible to reach

Because of the high costs and technical ***problems*** mellitus.

involved in

development of molecular-engineered insulin-producing clonal cell ***therapy*** seems uncertain. An alternative approach is the islet ***cell*** transplantation broad applicability of this

neuroendocrine AtT-20ins cells. This paper reviews the The main interest is in rodent insulinoma cell lines and

knowledge about glucose-stimulated insulin secretion and the current

problems that have to be solved before these ***cells*** can

be used for ***therapy*** in diabetes mellitus.

L12 ANSWER 13 OF 28 MEDLINE AN 96124619 MEDLINE

neurotransmitters in the brain. Bjorklund and co-workers

Cervi, Paris, France

| DN 96124619 | treating a | DT (CLINICAL TRIAL) |
|--|---|--|
| \circ | wide array of illnesses. Treatment of disease by transplantation of | (CLINICAL TRIAL, PHASE II) |
| AU Ohashi T | normal | Journal; Article; (JOURNAL ARTICLE) |
| CS like University School of Medicine, Department of Pediatrics. | healthy cells, for the replacement of specific biological deficiencies or | LA English FS Priority formals: Cancer Journals |
| MEDICINE. (1995 Dec) 53 (12) | as a form of auxiliary support for a failing organ, offers important | EM 199601 |
| 2943-6. Ref: 12 | therapeutic applications and also serves as a model for assessing | AB Twenty-seven patients with previously irradiated unresectable |
| Journal code: KIM. ISSN: 0047-1852. | cellular | recurent |
| CY Japan DT Issumal: Article (101 IBNA) APTICIE) | physiology. In the long-term, cell transplantation may also have | squamous carcinoma of the cervix who had falled one prior |
| General Review: (REVIEW) | production in the development of artificial organ support systems for sustaining | regimen received 1,000 mg/m2 per day of merbarone given by |
| (REVIEW, TUTORIAL) | patients with severe and chronic diseases such as diabetes, liver | continuous i.v. |
| LA Japanese | failure, | influsion for 5 days every 4 weeks through a central line. One |
| | endocrine and exocrine disorders, ***neurological*** | patient was |
| AB Gaucher disease is an inherited metabolic disease characterized | abnormalities, | never treated, and four were inevaluable for response, leaving 26 |
| Aq. | and congenital metabolic defects. Several groups have | patients |
| deficient activity of lysosomal enzyme, known as a | | evaluable for toxicity and 22 evaluable for response. The major |
| gueocereorostasse. Three clinical phenotype were documented depends on the onset of | reasionity and entracy of cell dataphanation in providing specific function in various experimental animal models of human disease. | auverse effect was myelosuppression with 6/26 (23%) experiencing |
| disease | However, | Gynecologic |
| and ***neuronal*** involvement. Deficient activity of | without adequate immunosuppression, complications due to tissue | Oncology Group (GOG) grade 3 or 4 leukopenia. There were two |
| glucocerebrosidase results in progressive accumulation of | rejection | episodes |
| glucocerebroside | remain a significant ***problem** . Microencapsulation of | (3.8%) of GOG grade 3 SGOT elevation. There were two patients |
| mainly in bone marrow derived macrophages. Diagnosis was made | cells within | (%,0%) wild |
| pased on enzymatic activity in various tissue including WBC and fibroblasts. | a synthetic semipermeable membrane, prior to transplantation, has been | <pre>developed mental status changes classified as grade 3 ***neurotoxicity*** This ***neurotoxicity*** may have</pre> |
| | proposed for circumventing immunological complications following | • |
| differentiate the three phenotypes. Although bone marrow | transplantation. The microcapsule's semipermeable membrane | secondary to iatrogenic hyponatremia caused by the large volumes |
| transplantation | allows permeant | of 5% |
| and enzyme infusion therapy are both effective, the inherent | molecules to freely diffuse across while preventing the | glucose infusion required at the original infusate concentration. |
| ***problems*** limits their application. Gene therapy based on | microencapsulated | After |
| | cells from escaping. This membrane also keeps unwanted | the concentration of the merbarone infusate was increased to 4 |
| of the """therapeutic"" gene to hematopoietic stem | substances, such as | mg/ml, no |
| were started in this year in LISA | reins and annotates, non enreung are majorepsure. Thus, microencencentalion provides an innovative and imigue technique | |
| were stated in this year in Oor. | for the | encountered. The overall response rate was 2/22 (9,0%) (95% |
| L12 ANSWER 14 OF 28 MEDLINE | transplantation of foreign tissue and cells without the need for | confidence |
| | immunosuppression. | interval 1.1-29.2%). In this pretreated population with recurrent |
| DN 96121848 | | snomanbs |
| TI Transplantation of microencapsulated hepatocytes for liver function | L12 ANSWER 15 OF 28 MEDLINE AN GROOF11 MEDIINE | cervical carcinoma, merbarone exhibited only minimal activity. |
| renjacement | 96006511 | 112 ANSWER 16 OF 28 MEDI INF |
| AU Dixit V. Gitnick G | | AN 94281278 MEDLINE |
| CS UCLA School of Medicine, Department of Medicine | ***therapy*** | DN 94281278 |
| 90024-7019, USA. | for squamous ***cell*** carcinoma of the cervix. A | TI Recent advances in diagnosis and treatment of small cell and |
| SO JOURNAL OF BIOMATERIALS SCIENCE, POLYMER | Gynecologic | non-small |
| EDITION, (1995) 7 (4) 343-57. | Oncology Group Study. | cell lung cancer. |
| Journal code: AY7. ISSN: 0920-5063. | AU Look K Y; Blessing J A; Williams L; Morris M | AU Sorensen JB; Hansen HH |
| | CS Department of Obstetries and Gynecology, Indiana University | CS Department of Oncology, National University |
| | School of | Hospital/Rigshospitalet, |
| LA English | Medicine, indianapolis, USA | Copenhagen, Denmark |
| EM 199603 | CA 37517 (NCI) | 162-70. Ref. 63 |
| AB Recent advances in cell biology and biotechnology have lead the | SO AMERICAN JOURNAL OF CLINICAL ONCOLOGY, (1995 | Journal code: A1V. ISSN: 1040-8746. |
| way for a | Oct) 18 (5) 441-3. | CY United States |
| greater understanding of ***cell*** function and the potential | Journal code: 3EZ, ISSN: 0277-3732. | DT Journal, Article, (JOURNAL ARTICLE) |
| therapeutic use of transplanted recells 101 | CY United States | General Review; (REVIEW) |

After 15 days in vitro, cultured cells reversed amphetamine-induced ***Neuronal*** maturation in vitro was stimulated by dibutyryl minimum density of DA ***neurons*** within the graft (greater ydroxylase (TH), ***neuron*** -specific enolase, and 200-kDa ***neurofilament*** accumulation three- to sixfold above DA ***neurons*** /mm3 of graft volume). Data suggest that the established a reaggregate (three-dimensional) tissue culture system derived from embryonic porcine ventral mesencephalon, Camegie serum-free N2 medium for an additional 10 days. Cultures labeled culturing the aggregates in tyrosine-free medium, which selects for tritiated thymidine on Days 5-7 in vitro revealed that 43.5% of the precursor cells in vitro may eventually make graft therapy a more practical approach to treatment of ***neurological*** diseases. AU Baetge E E CS CytoTherapeutics, Inc., Providence, Rhode Island 02906. SO ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, medium supplemented with Chang C Supplement for 5 days and ***neuronal*** ***neurons*** had incorporated the label, indicative of cell .9 rotation when grafted into the striata of hemiparkinsonian rats. We demonstrate the in vitro growth of DA- ***neuronal *** , such as the limited availability of transplant tissue, we have Histological examination of the cultured cells demonstrated structures, similar to developing ***neuroepithelium*** percentage of TH ***neurons*** can be increased about 15-18. Cultures of D.A. ***neuronal *** precursors were Successful transplants of cultured ***neurons*** were AMP (dbcAMP). Exposure to 5 mM dbcAMP for 7 days TH-positive cells. The ability to cultivate mammalian ***neuronal *** can be used to proliferate normal mammalian TI Neural stem cells for CNS transplantation. Journal code: 5NM. ISSN: 0077-8923. L12 ANSWER 18 OF 28 MEDLINE AN 94057845 MEDLINE (1993 Sep 24) 695 285-91. hydroxylase (TH), stimulated tyrosine maintained in F12 dependent upon a 94057845 control levels. threefold by switched to rosette-like Ref: 27 than 100 division. cyclic vivo. A ž chemotherapy in small cell lung cancer is still experimental, which SO EXPERIMENTAL NEUROLOGY, (1993 Dec) 124 (2) 253-64. Journal code: EQF. ISSN: 0014-4886. markers for for patients with advanced disease when compared with untreated achieved at the cost of increased toxicity. Neoadjuvant treatment a controversial issue, one of the major ***problems*** being of an effective standard systemic ***therapy*** in non-small in humans and in animal models. In order to circumvent some of associated with a marginal survival benefit, which also seems to for completely resected patients with non-small cell lung cancer AB Despite much effort and many published reports, progress in subjects solely receiving supportive care. The modest survival AU Spector D H; Boss B D; Strecker R E CS Department of Psychiatry and Behavioral Science, SUNY at II A model three-dimensional culture system for mammalian subclassification of non-small cell lung cancer into different treating lung cancer has been slow. The use of monoclonal also the case for prophylactic cranial irradiation. Adjuvant have previously been shown to improve the symptoms of precursor cells: application for functional intracerebral AB Grafts of fetal neural tissue, rich in dopamine (DA) detection of metastasis and ***neuroendocrine*** groups may be useful in future staging and treatment. Journal; Article; (JOURNAL ARTICLE) L12 ANSWER 17 OF 28 MEDLINE AN 94116614 MEDLINE ***cell*** lung cancer. (REVIEW, TUTORIAL) LA English FS Priority Journals Priority Journals CY United States DT Journal; Articl parkinsonism, both DN 94116614 •••nemons••• Dose-intensive diagnosing and transplantation. LA English FS Priority Jo EM 199404 antibodies for chemotherapy dopaminergic EM 199409 Stony Brook prognostic benefit is hold true remains the lack may be control ş .2

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A direct approach towards therapeutic treatment of these diseases is
                                                                                                                                                                                and Huntington's disease are becoming ever more prominent in our
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   stem cells may become the tissue/ ***cell*** source necessary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        transplantation. These include oncogene-induced immortalization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    well-characterized and clean source of transplantable material. A
                                                                                                                                                                                                                                                                                              through replacement therapy where normal tissue is transplanted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tl Integrative assessment of the developmental pharmacology and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            on an unstable and ***problematic*** source of fetal tissue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Stem ***cells*** are self-renewing multipotent and could
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 propagated stem cells that are potential candidates for nervous
                                                                                                          ***Neurodegenerative*** disorders such as Parkinson's,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nervous system stem cells. The nature of these cells and their
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CS Department of Pharmacology, Teikyo University School of
                                                                                                                                                                                                                                                                                                                                                                                                                                        transplants in Parkinson's disease, but the process is heavily
                                                                                                                                                                                                                                                                                                                                                                 the nervous system. Recently, significant progress has been
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            growth-factor stimulation of naturally occurring central and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of new in vitro approaches have led to the development of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         developing the ***therapeutic*** potential of neural
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PHARMACOLOGICA JAPONICA, (1991 Dec) 98 (6)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for transplantation into the CNS will be evaluated.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SO NIPPON YAKURIGAKU ZASSHI. FOLIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 toxicology, with special reference to the brain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   fournal code: F2X. ISSN: 0015-5691.
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AN 92146986 MEDLINE
DN 92146986
LA English
FS Priority Journals; Cancer Journals
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              developmental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                transplantation
                                                                                                                                                                                                                                                                                                                                                                                                     achieved with
                                                                      EM 199402
                                                                                                                                                Alzheimer's,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    continuously
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CY Japan
DT Journal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AU Fujii T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      peripheral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       provide a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         suitability
                                                                                                                                                                                                                                                                                                                                 back to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              number
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Neural
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               and
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Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

CY United States

problems associated with ***cell*** transplant

1

Journal; Article; (JOURNAL ARTICLE) General Review, (REVIEW)

(REVIEW, TUTORIAL)

| LA Japanese | AB The authors report an exceptional case of giant cell tumour of the |
|--|--|
| FS Priority Journals EM 190208 | third there are received by the mediation development Demits |
| AB Increasing numbers of ***neurotoxins*** or | intimate involvement of the large mediastinal vessels, a double |
| | surgical |
| agents that have specific target ***cells*** or receptors can be | approach, starting with sternotomy to ensure vascular control then |
| used to assess the developmental correlation between the structure and | Treatment was completed by a second ***neurosurgical*** |
| function | operation |
| of various organs including the brain. Patients with chronic diseases | followed by 5,000 rads of radiotherapy. Based on a review of the literature, the authors discuss the nathocenesis and consider the |
| now able to maintain their social activities but still must be | various |
| medicated | ***therapeutic*** ***problems*** raised by giant |
| for a long period of their life. This might increase the potential | ***(e]]*** |
| nazard of prenatal drug exposure in the progeny. Functional teratology is | rumours of the vertebrae (situated above the sacrum). |
| quite a | ANSWER 2 |
| new concept in ***neuroscience*** Recent observations of our | AN 92097077 MEDLINE |
| functional teratology might encompass the whole stage of fetal life | |
| | |
| animals and humans. The shortage of precise information on the | neural ***cells*** provides new ***therapeutic*** agents |
| ***noping integration of the state of a state of the stat | reduced toxicity. |
| to be | AU Baghdiguian S; Nickel P; Fantini J |
| solved for the further progress of developmental pharmacology and | |
| toxicology. Single exposures to drugs at a different stage during the | SO CANCER LETTERS, (1991 Dec 1) 60 (3) 213-9. |
| gestational period of rats of mice mignt provide more useful information | Journal code: CMA: 155N: 05045555. CY Netherlands |
| on the relationship between the lesioned area and related functional | |
| disorders manifested postnatally. This paper reviews recent | |
| advances in develonmental ###nannonhamenthament and finerional | FS Priority Journals, Cancer Journals FM 100204 |
| ***neuroteratology*** including beneficial points of the | AB Suramin is a polyanionic compound currently used under |
| short-term | evaluation for |
| exposures to drugs. | antineoplastic activity. One of the main ***problems*** |
| L12 ANSWER 20 OF 28 MEDLINE | during clinical trials was an adverse ***neurotoxic*** effect. |
| | probably due to a direct cytotoxic effect on neural cells. Suramin is |
| DN 92117468 | also |
| trafe turnor of the posterio-superior mediastinum. I nerapetute approach. | known to trigger differentiation of numan colon cancer cells, yet a chronic treatment induces a lysosomal storage disorder. The aim of |
| Apropos of a case. Review of the literature]. | this |
| Turneur rare du mediastin postero-superieur. Attitude | study was to evaluate suramin analogs for their effect: (i) on the |
| uncrapedulque. A Danie de la litterature | lysosomal system of the numan colon cancer cell clone H 1 29-LP4; |
| propos d'un cas. nevue de la interature. AU Zimmermann J M; De Graeve B; Cador L; Colonna M A; | and (ii) on C6 glioma cell growth and morphology. One of the derivatives |
| Coblence JF; Lemesle L | tested |
| CS Polyclinique Clairval, Marseille | NF036, induced terminal differentiation of HT29-D4 cells without |
| Journal code: 50E. ISSN: 0003-3944. | impairment of the lysosomal system. Furthermore, in contrast to |
| CY France | suramin, |
| General Review (REVIEW) | INFOSO did not affer to cell grown and morphology. We conclude that there |
| (REVIEW LITERATURE) | is a relationship between the ability of a suramin derivative to |
| LA French | induce a |
| EM 199204 | lysosomal storage disorder in human colon cancer cells and its |

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***neurotoxic*** effect. A double screening of suramin analogs
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HT29-D4 and C6 cells allowed us to identify a new candidate
                                             antineoplastic
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drug: NF036.

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L12 ANSWER 22 OF 28 MEDLINE
AN 91056694 MEDLINE
DN 91056694
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TI A case of long-term survival of a patient with complicated diffuse metastatic leptomeningeal carcinomatosis secondary to lung

AU Watanabe A; Mizobe M; Ogawa Y; Takei N; Nomoto H; Urata C; Mano K; Hohjo

S; Imamura T

CS Second Department of Internal Medicine, Teikyo University, School of

Medicine, Tokyo, Japan. SO NIHON KYOBU SHIKKAN GAKKAI ZASSHI. JAPANESE JOURNAL OF THORACIC DISEASES, (1990 Aug) 28 (8) 1130-5.

Journal code: KQD. ISSN: 0301-1542.

CY Japan DT Journal; Article; (JOURNAL ARTICLE)

LA Japanese

EM 199103 AB A case of long-term survival of a female patient with complicated diffuse

metastatic leptomeningeal carcinomatosis (DMLC) secondary to lung cancer

is reported. A 36-year-old woman, hospitalized with a chief

headache and unproductive cough, was diagnosed as having primary complaint of

lung adenocarcinoma (T4NIMI oss) and was given systemic

progressive deterioration of her headache continued, repeated ***neurological*** examination, cerebrospinal fluid (CSF)

and cranial CT scans failed to show evidence of metastasis to the central

examination,

nervous system, and the only finding suggesting CNS involvement was an

elevated CEA level in CSF. Later in the course of her treatment, tþe

patient suddenly lost her vision and subsequently consciousness acute increased intracranial pressure, and emergency ventricular

was performed for ***therapeutic*** and diagnostic purposes. Malignant drainage

cells were found in CSF obtained from a ventricular

she was treated successfully by systemic and intrathecal

agents. She was discharged after a ventriculoperitoneal shunt chemotherapeutic operation in children with ***neuroblastoma*** are needed. A scheme for LA English FS Priority Journals EM 198811 immunoglobulin that CY United States DT Journal, Articl encephalitis caused CS Department Medicine, New 88289199 infections. This encephalitis. 'uninvolved' Haven, CT. amounts of enterovirus obligatory attempted. resulting ard Newcastie upon Tyne.. SO BRITISH JOURNAL OF HAEMATOLOGY, (1988 Aug) 69 (4) involving bone marrow: the were administered intrathecally without serious adverse effects, but apparent therapeutic effects were noted either. She survived over 2 One hundred and eighty bone marrow trephine biopsies obtained options are to be assessed properly, intrathecal administration of the anticancer drugs, and a shunt filter staging procedures before and during treatment of 20 children with 므 to aggressive intrathecal chemotherapy was found. Current therapy ***problem*** of detecting residual tumour after initiation of after DMLC was first diagnosed. At autopsy DMLC secondary to persisted in most cases. Distortion in marrow architecture and the the marrow at presentation. Once treatment had begun, primitive continuation of abnormal stromal reactions may reflect failure to located in the tube to prevent the dissemination of cancer cells. addition to methotrexate and cytosine arabinoside, ACNU and [V ***neuroblastoma*** were reviewed. A primitive cell are became difficult to find but fibrosis and a marked increase in uniformly accepted criteria to define continuance of marrow prominent fibrous stromal reaction and increased reticulin for hydrocephalus; a double-dome reservoir was used for CS Department of Haematology, Royal Victoria Infirmary, eradicate turnour despite absence of detectable primitive patients with DMLC and its clinical ***problems*** adenocarcinoma was confirmed, but no evidence of Journal; Article; (JOURNAL ARTICLE) TI Histology of ***neuroblastoma*** Journal code: AXC, ISSN: 0007-1048. relation to our experience in this case. L12 ANSWER 23 OF 28 MEDLINE AN 88309709 MEDLINE DN 88309709 Priority Journals; Cancer Journals CY ENGLAND: United Kingdom If current ***therapeutic*** AU Reid MM, Hamilton PJ leukoencephalopathy due chemotherapy LA English FS Priority Joi EM 198812 infiltrate with characterized discussed in ***cells*** during 68 SO BR 487-90. 덥 8

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daily basis. On Days 1 through 7 of the regimen patients were given
                                                                                                                                                                                                                                                                                                                                                                                                                       300 mg daily for periods ranging from 1 week to 1 month. Cultures
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          are potential targets for lymphokine-activated killer (LAK) cellular
                                                                                                                                                                                                                                                                                          120,
300, 450, 510, 540 and 600 mg of IgG, respectively. Patients then
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        immunotherapy. Relapsed acute lymphocytic leukemia (ALL) and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  pediatric oncology today. However, one ***problem*** which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CANCER IMMUNOLOGY, IMMUNOTHERAPY, (1988) 27
Follow-up time has ranged from 18 months to 4 years. Ommaya
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               determine the need for further treatment. Clinically the patients
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      immunotherapy in children particularly difficult is obtaining the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cerebrospinal fluid removed from the reservoir were repeatedly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AB A wide variety of human cancers currently have no effective
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     T1 Augmentation of cell number and LAK activity in peripheral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mononuclear cells activated with anti-CD3 and interleukin-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CS Immunobiology Research Center, University of Minnesota,
                                                                                                                                                                   (6%) immunoglobulin (Sandoglobulin) was injected into the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               markedly.(ABSTRACT TRUNCATED AT 250 WORDS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LAK protocols have utilized short-term (5 day) cultures of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ***neuroblastoma*** are two of the major therapeutic
                                                                            were placed into the lateral ventricle of each patient and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         results in children with acute lymphocytic leukemia and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CY GERMANY, WEST: Germany, Federal Republic of DT Journal; Article; (JOURNAL ARTICLE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (IL2)-activated cells which are initially obtained from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      numbers of ***cells*** required. Present adult
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AU Anderson P M; Bach F H; Ochoa A C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Journal code: CN3, ISSN: 0340-7004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           L12 ANSWER 25 OF 28 MEDLINE
AN 88282438 MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LA English
FS Priority Journals; Cancer Journals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NC T32CA09445 (NCI)
All 7687 (NIAID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ***neuroblastoma***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AI18326 (NIAID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Minneapolis 55455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ***therapeutic***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DN 88282438
                                                                                                                                                                                                                 reservoir on a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    treatment and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        challenges in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EM 198811
                                                                                                                                 concentrated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             analyzed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               makes LAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             improved
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (1) 82-8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           poold
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ъ
                                                                                                                  to be of more value than a simple distinction between 'involved' and
                                      classifying marrow histological appearances is presented which may
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SO PEDIATRIC INFECTIOUS DISEASE JOURNAL, (1988 May) 7 (5 Suppl) S30-3. Ref.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       hypogammaglobulinemia. ***Neurologic*** damage, frequently
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein levels and cell counts returned to normal after this treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  spread of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Department of Clinical Immunology, Yale University School of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      temporarily halted progression of the disease, but no patients have
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       is particularly true of infections with enteroviruses. Echovirus encephalitis has been a major ****problem*** for patients with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      condition deteriorated in all cases. Treatment with intraventricular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            In certain patients intravenous and intrathecal gammaglobulin has
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cured by this approach. In this report we detail treatment of three
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        maintained the patients' IgG levels within the normal range, their
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          in death, has been common in such patients. Because there is an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        enteroviruses, ***therapy*** with immunoglobulin has been
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the echoviruses can no longer be isolated from the cerebrospinal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                immunoglobulin was then tried. In all three cases cerebrospinal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hypogammaglobulinemia, patients who do not produce normal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AB Although bacterial infections predominate in patients with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      immunoglobulin also have an increased incidence of viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    children with X-linked hypogammaglobulinemia who had
                                                                                                                                                                                                                                                                                                                                                                             TI Intraventricular gamma-globulin for the management of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           extracellular phase in the ***cell*** to ***cell***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        by echovirus infections. Despite doses of intravenous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Journal; Article; (JOURNAL ARTICLE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (REVIEW OF REPORTED CASES)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Journal code: OXJ. ISSN: 0891-3668.
                                                                                                                                                                                                                                            L12 ANSWER 24 OF 28 MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           General Review; (REVIEW)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AU Dwyer J M; Erlendsson K
                                                                                                                                                                                                                                                                                          88289199 MEDLINE
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syndromes, organic brain syndrome, and hematologic abnormalities patients survived more than five years after treatment was initiated with radiotherapy to the brain may account for the higher incidence percent). Late relapse, or a second primary malignancy three to six episodes without documented cause and cerebrovascular accident) treatment-related. Progressive pulmonary disability, post-herpetic after diagnosis, accounted for death in five of these patients. Late recurrences involved the chest, bone, and liver, none occurred in percent of those with limited disease and 1 percent of those with extensive-stage diseases) at a minimal follow-up in excess of six SO AMERICAN JOURNAL OF MEDICINE, (1984 Sep) 77 (3) for small ***cell*** lung cancer by the Southwest Oncology One definite case of chronic treatment-related toxicity occurred: two less severe ***neurologic*** complications (occasional central nervous system. Disease-free survival continues in 10 of a nitrosourea or methotrexate during the induction phase of FS Abridged Index Medicus Journals; Priority Journals; Cancer ***problem*** (orthostatic hypotension with preterminal AB In the first study of combined chemotherapy and radiation congestive cardiomyopathy after 450 mg/m2 of doxorubicin, been observed to date. Nitrosourea administration and/or complications observed by others in long-term survivors. NEUROCHIRURGIE UND PSYCHIATRIE, (1981) Contamination d'un gliome par le virus herpetique DN 82084383 TI [Contamination of a glioma by the herpes virus]. SO SCHWEIZER ARCHIV FUR NEUROLOGIE, managed with digitalis and diuretics. One severe Journal; Article; (JOURNAL ARTICLE) Journal code: 3JU. ISSN: 0002-9343. L12 ANSWER 28 OF 28 MEDLINE AN 82084383 MEDLINE CY United States ***neurologic*** co-administration AU Ochsner F ***therapy*** dementia) and EM 198412 successfully patients (6 Group, 17 have not Journals falling may be 6.6 ţ ğ ***cell*** tumors pose a particularly difficult ***problem*** serum and CSF to assess response to treatment. Only boys develop to the hypothalamus by ventricular seeding, but we report a case of parenchymal tumors. Elevation of melatonin in plasma or CSF and nonparenchymal tumors may increase melatonin nonspecifically by AU Livingston R B; Stephens R L; Bonnet J D; Grozea P N; Lehane precocious puberty with pineal tumors. What appears to be puberty tumor biosynthetic activity has been reported in isolated cases, but interfering with regulatory mechanisms of the normal pineal gland. range of melatonin values in normals is very wide, and melatonin giant cells). HCG can stimulate tests to produce testosterone, but estrogen. Diabetes insipidus with pineal tumors is usually due to puberty, a syndrome easily differentiated from pseudoprecocious actually pseudoprecocious puberty, due to ectopic production of Biologic markers, beta HCG and AFP, aid diagnosis and can be endocrinologic tests. There are no biologic markers to diagnose and postoperative ***therapy*** can be planned rationally dilated third ventricle. Rarely, hydrocephalus may trigger true diagnosis. Surgical techniques now permit removal of benign necessary (together with LH or HCG) to stimulate ovaries to aqueductal stenosis with diabetes insipidus resulting from a one third of cases). Pathologic diagnosis is obtained for the the pathologist because they often contain mixed germ cell Long-term survival and toxicity in small cell lung cancer. their neoplasms (choriocarcinomas or germinomas with not correlate with specific pathologic tumor types. Both L12 ANSWER 27 OF 28 MEDLINE AN 84304245 MEDLINE DN 84304245 Oncology Group study NC CA-20319 (NCI) syncytiotrophoblastic CA-12644 (NCI) CA-28862 (NCI) parenchymal and tumors (about monitored in precocious puberty by Southwest remainder, massively HCG by increased FSH is produce pineal spread Germ for OKT3 + IL2-activated cultures were compared to cultures activated line, not only were total cytolytic units greatly increased in OKT3 + children with cancer. This approach may facilitate the utilization of alone in 2 children with relapsed ALL and 2 children with stage IV increase for cultures activated with IL2 alone. In vitro 51Cr release CD16 + NK cells were seen in these cultures. In summary, OKT3 assays were used to estimate LAK activity of the cultures at 7 and dramatically in the past decade. New imaging techniques result in in cell number: after 14 days the OKT3 + IL2-activated cultures IL2-stimulated cultures by lytic activity on a per cell basis (lytic days. When tested against HL60, a natural killer (NK)-resistant of high level LAK activity using peripheral blood mononuclear anti-CD3 monoclonal antibody, and IL2. Cell growth and LAK units/1 x 10(6) cells) had also markedly increased on day 14 of activation of peripheral blood mononuclear cells with OKT3, a approximately 500-fold increase in cell number compared to a Phenotypic analysis demonstrated that 80% to 90% of cells in have investigated a different approach to obtain increased cell ***neuroblastoma*** OKT3 + IL2-activated cultures had The evaluation and treatment of pineal region tumors has Since routine use of this procedure in small children is not IL2-stimulated cultures were CD3 + T cells. Variable low activation resulted in a large increase in cell yield and the increased cell numbers in future adoptive immunotherapy NEUROLOGIC CLINICS, (1986 Nov) 4 (4) 877-905. ***Neuroendocrine*** aspects of pineal tumors. Journal; Article; (JOURNAL ARTICLE) Journal code: NEU, ISSN: 0733-8619. LI2 ANSWER 26 OF 28 MEDLINE AN 87089581 MEDLINE especially in pediatric patients. Fetell M R; Stein B M Priority Journals United States marked increases 87089581 percentages of eukopheresis EM 198704 English practical, we numbers by yielded an turnor cell mitogenic activity in protocols, N OS Z 겁

STN INTERNATIONAL LOGOFF AT 09:38:30 ON 20 SEP 1999 277 S L4 AND NEURO?/AB,BI 485 S L2 AND NEURO?/AB,BI 66 S L9 AND L1 FULL ESTIMATED COST COST IN U.S. DOLLARS CA SUBSCRIBER PRICE Executing the logoff script. SINCE FILE TOTAL ---Logging off of STN----> LOG Y L10 L11 L12 87 63 û î 65 years old patient, who died 9 days after its subtotal resection, are of the gloma cells is this case was most likely related the immature immunity of the ***cells***, corticoid ***therapy*** and inflammatory reaction evokes an opportunistic viral infection in an immunodeficient patient. Inspite of the description by many authors brain turnours, the hypothesis of an oncogenic action of the herpetic glioma described herein. The precocious search for HSV antibodies different particles which have been interpreted as of viral origin in is not retained in this particular case, considered as exceptional, of the means of dissemination, the ***problem*** of latency and reactivation of the virus. He proposes the hypothesis that the characteristic of herpes simplex virus. The author discusses, with reference to the literature, the exo and endogenous sources of resection acting as inducers. The almost complete absence of an CY Switzerland
DT Journal; Article; (JOURNAL ARTICLE)
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AB The clinical and ***neuropathologic*** descriptions of a encephalitis with its classical topographical distribution. There numerous eosinophilic inclusion bodies which ultrastructurally early diagnosis are necessities so as to administer as rapidly as documented. The post-mortem study of the brain revealed an immunofluorescence and a temporal lobe biopsy in order to the specific therapy, adenine-arabinoside fournal code: UDS. ISSN: 0036-7273. 129 (1) 19-30. establish an glioma in a infection, infection herpetic surgical were 당

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L2 7686 S (CELL?)(\$A)(THERAP?)/AB,BI
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L4 4796 S (CELL?)(3A)(THERAP?)/AB,BI
L5 918 S L4 AND L1
L6 41 S L5 AND ADMINIST?/AB,BI
L7 1 S L6 AND NEURO?/AB,BI

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